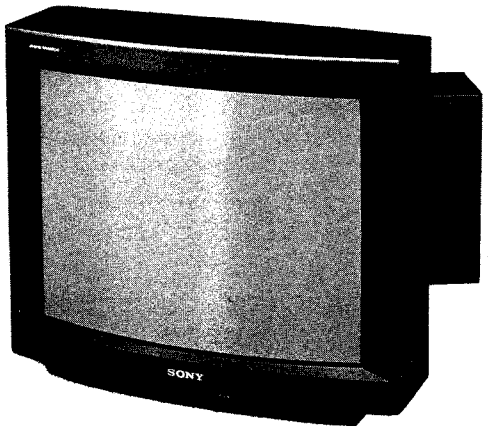
KV-DX271TU
RM-670

SERVICE MANUAL

UK Model

Chassis No. SCC-B15K-A



AE-1 CHASSIS

Note: The service manual for RM-670 has been issued separately.

MODELS OF THE SAME SERIES	
KV-DX271TU	KV-X25TU
KV-DX27TU	KV-X21TU
KV-DX21TU	KV-211XMTU

SPECIFICATIONS

Television system	British TV standards
Colour system	PAL
Channel coverage	UHF channels B21 – B69
Picture tube	Trinitron tube 114-degree deflection Approx. 68 cm (27 inches) (Approx. 64 cm picture measured diagonally)
Inputs	21-pin connector : CENELEC standard 21-pin connector : RGB input unconnected
Outputs	Headphones jack : stereo minijack External speaker terminals : 2-pin DIN Audio output jack : phonojack output level dependent upon TV setting
Power consumption	159 W
Dimensions	Approx. 632 × 550 × 471 mm (w/h/d)
Weight	Approx. 42 kg
Supplied accessories	RM-670 Remote Commander (1) Detachable speakers (1 set) Speaker cord with plug (2) IEC designation R6 batteries (2)
Sound output	20 W + 20 W (music power)

Design and specifications are subject to change without notice.

TRINITRON® COLOUR TV

SONY®

MICROFILM

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

1−1. FIRST OF ALL

1 Connect the aerial to the ⅂ socket on the rear of the set.
This socket receives the standard 75-ohm aerial plug.
2 Plug in the set.
3 Preset in the available channels.

Use the buttons inside the panel. To open the panel, push the ⍐ mark.

To tune in all channels automatically :
1 Press ⇨ (preset).
2 Press PROGR to select the programme position from which tuning is to start.
3 Press ⇨ (auto programming).

Up to 29 receivable channels can be preset in numerical sequence beginning from programme number 1.
When tuning has been completed, the set returns to programme position 1.

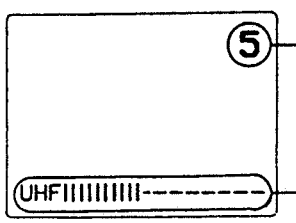
To tune in a channel in any desired programme position. (e. g. to preset a channel in its corresponding programme position : channel 1 in position 1) :
1 Press ⇨ (preset).
2 Select the desired programme position by using PROGR + or −.
3 Press C (clear).
4 Press ⇔ (search) repeatedly until the desired channel appears.
5 Press ⇨ (preset) again.

To skip the unused programme positions skipped (when using the PROGR + or − buttons to scan available channels.)
1 Press ⇨ (preset).
2 Select an unused position by using PROGR + or −.
3 Press C (clear).
4 Repeat steps 2 and 3 for all unused position.
5 Press ⇨ (preset) again.

Move the VTR away from the TV, if the picture or sound is distored. Only one of the VTRs should be turned on at one time. It is also possible to connect a VTR using the ⅂ socket.

Note
If the set is to be used in an area with poor reception preset the programme numbers between 1 and 19 for TV programme use.
When watching a video with the VTR connected to the ⅂ connector, set the channel for the video to programme number. 0 or any empty channel between 20 and 29.

On-screen display while tuning

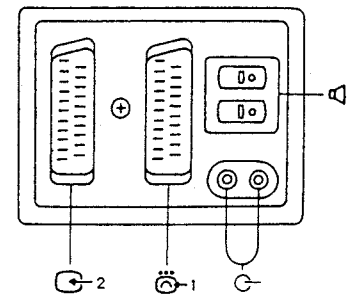


Programme position

Indicates the approximate location in the band of the channel being tuned in. The number of upright segments increase for a higher-frequency channel and decrease for a lower-frequency channel.

1−2. CONNECTING OTHER EQUIPMENT

Connectors on rear set



L/G/S	Left external speaker terminal (2-pin DIN)	Connect to external speakers. The TV speakers will be disconnected. speakers 8−16 Ω
R/D/D	Right external speaker terminal (2-pin DIN)	
R/D/D	Right audio output jack (phono jack)	Connect to audio equipment. When only using the phono-jacks, two loudspeaker plugs, (DIN 41529) should be insarted into the extemal speaker termi nals so that the TV spaker output is switched off.
L/G/S	Left audio output jack (phono jack)	
1	21-pin connector (CENELEC standard)	Connect to a VTR micro computer, etc. The picture of the TV channel being received is always output. The picture of 2 can be watched while recording a TV programme with the VTR connected to 1.
2	21-pin connector (without RGB input)	Connect to second VTR. The picture displayed on the screen is always output. The picture of 1 can be recorded with the VTR connected to 2 while monitaring the picture.

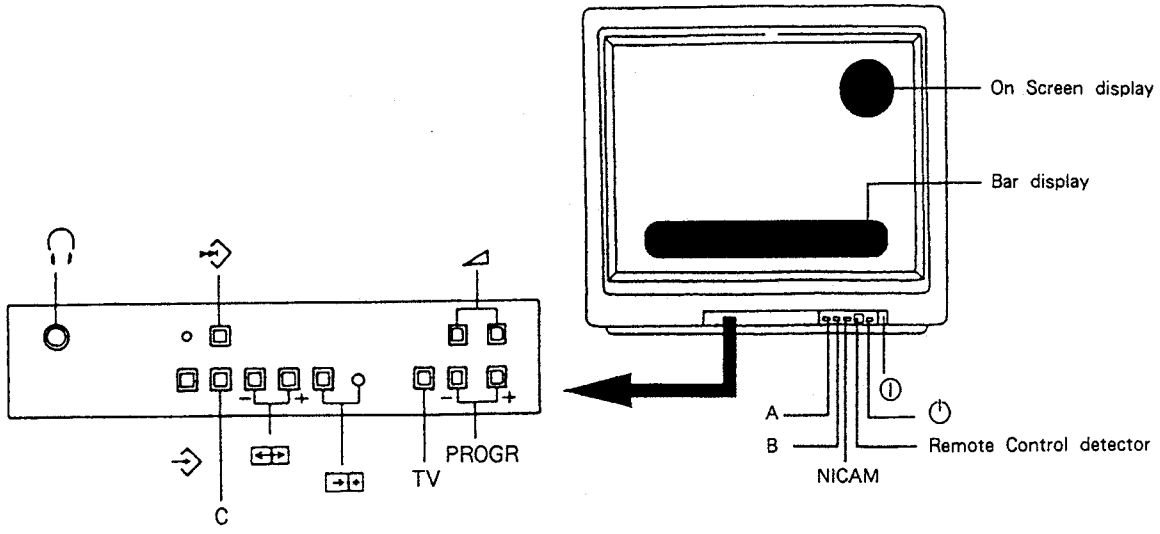
VTR operation using the supplied Commander. Remote operation of the VTR (8mm only) is limited to the features and functions of the VTR. For further details, refer to the VTR manual.

21 Pin connector (1, 2)

Pin No.	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
2	○	○	Audio input B (right)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
3	○	○	Audio output A (left)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
7	○	●	Blue input	0.7 V ±2 dB, 75 ohms, positive
8	○	○	Function select (AV control)	High state (9.5–12 V) : Part mode Low state (0–2 V) : TV mode Input impedance : More than 10 k ohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green/Green with sync input	Green signal : 0.7 V ±2 dB, 75 ohms, positive Green with sync signal : 1 V ±2 dB, 75 ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	●	Red input	(Same as Pin 7)
16	○	●	Blanking input (Ys signal)	High state (1–3 V) Low state (0–0.4 V) Input impedance : 75 ohmes
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (–3, ±10 dB)
20	○	○	Video input	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (–3, ±10 dB)
21	○	○	Common ground (plug, shield)	

* at 20 Hz–20 kHz ○ connected ● unconnected (open)

1–3. FUNCTION OF CONTROLS



On the set

On-screen display and button
Indicates programme numbers and input modes ; ⊖1, ⊖2.
Press this button to make the display appear on the screen, and again to make it disappear. See also "On the Remote Commander."

Bar display
Indicates the level of the user controls when they are adjusted.

⏻ Power switch
To cut off the mains electricity supply, press this switch. Ensure correct operation by pressing this switch fully.

⏻ standby indicator

NICAM stereo indicator
This indicator illuminates when NICAM programme is being received.

A/B stereo/bilingual indicator
These indicators illuminate when their function is switched on by using the Remote Commander.
See "On the Remote Commander" below.

Remote control detector
Point the Remote Commander towards this detector.

Inside the panel

headphones jack (stereo minijack)

PRESET button
Press to preset the channels. Press again to memorize the preset channel.

Auto Programming button
Press to preset all the receivable channels automatically.

C Clear button
Press to restore the memory of all channels to the lowest receivable frequency.

AFT button and indicator
Normally, press so that the indicator lights up. The AFT circuit automatically fine tunes the channels for the best possible picture.

SEARCH buttons
Press to fine tune a weak channel manually, if required.
When is pressed, the indicator (AFT) goes off and the AFT cricuit does not function on the selected channel. To restore the AFT circuit on this channel, press so that the indicator lights up.

volume buttons

PROGR+/− buttons

TV button
The TV button will not function on this set.

A/B bilingual button
Press to select channel A, B of a bilingual programme and regular broadcast.
Sound will change as follows with one press of A/B button.

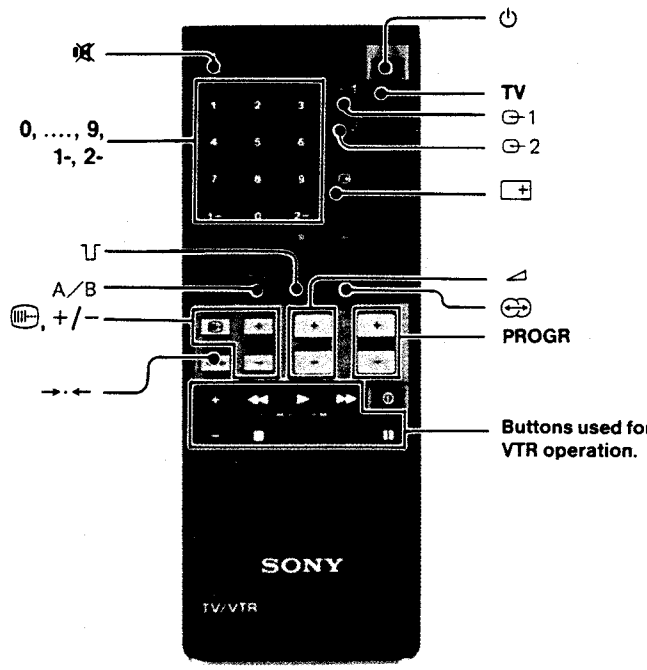
Broadcast	Sound	Indicator		
		A	B	NICAM
Stereo	Stereo ↔ Regular	○	○	○
		×	×	○
A+B	A → B → Regular → A	○	×	○
		×	○	○
		×	×	○
A	A ↔ Regular	○	×	○
		×	×	○
Regular only	Regular	×	×	×

○ ····· illumination × ····· no illumination

Note
When you turn on the set or change the channel what sound will be heard first?

When Regular sound and NICAM sound are same ····· NICAM sound
When Regular sound and NICAM sound are different ····· Regular sound
To select the desired sound, press A/B button.

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY



RM-670

On the Remote Commander

To operate the Commander, point it toward the remote control detector.

mute button
Use to mute the sound.

0, ..., 9, 1-, 2- buttons
To tune into :
programme 15, press 1- and 5.
programme 25, press 2- and 5.

A/B bilingual button
Press to select channel A (usually the local language) or B (usually the original language) of a bilingual programme. Both indicators light up if a stereo programme is received.

+/− picture and sound adjustment buttons
Press repeatedly until the on-screen display of the required adjustment appears (picture, colour, hue, brightness, sharpness, bass, treble, balance). Adjust by pressing + or − adjust to the button.

Notes
- When the volume is at the minimum setting, the balance function does not operate.

→ • ← reset button
Press to reset picture, colour, brightness, sharpness, bass, treble, and balance to factory set levels.

standby button
Press to turn the set into the standby mode. Use facility to turn off the set for short periods of time. To return to TV mode, press TV or the programme number on the Remote Commander ; there will be a slight delay before the picture is restored. If the main power is turned off when in standby mode the indicator will take 2 to 6 seconds to go off.

TV button
Press to change to the TV mode from standby or input or teletext modes.

1 input button
Press to view the input picture coming in through the 1 connector. "1" lights up on the screen. Press TV or the programme number to return to the TV mode.

2 input button
Press to view the input picture coming in through the 2 connector. "2" lights up on the screen. Press TV or the programme number to return to the TV mode.

on-screen display button.
Press to make the display appear on the screen. And again to make it disappear.

loudness button
Press to emphasize high and low notes.

space sound button
Press to obtain special acoustic effects.

volume buttons

PROGR buttons

Note
Buttons not refered to in the text of this manual do not operate.

1–4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation

1 Select the TV channel for the desired teletext service.
When the signal is weak, teletext error may often occur.
2 Press ⊜/⊜ (TEXT/MIX) to display the teletext service.
Once ⊜/⊜ has been pressed, the TV channel cannot be changed.
3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the remote commander.

The teletext service can be displayed directly from the standby mode, by pressing ⊜/⊜.

To receive the teletext service of a different TV channel
1 Press TV to return to the TV mode.
2 Select the desired TV channel.
3 Press ⊜/⊜.

Note
To receive the teletext service accurately, keep ⊡ inside the panel switched on during teletext operation.

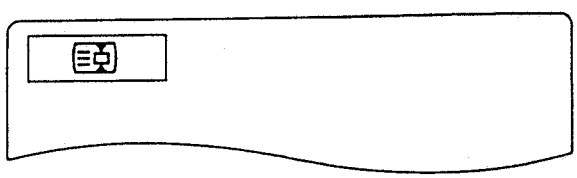
To display the index page
Press ⊜ (INDEX).
If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page
Press ⊜ (PAGE+) or ⊜ (PAGE−).

To superimpose the teletext display on the TV picture
Press ⊜/⊜ twice from TV mode.
Press again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed
Press ⊜ (TEXT CL).
This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated /changed
Press ⊜ (HOLD). The HOLD symbol appears at the top of the screen.



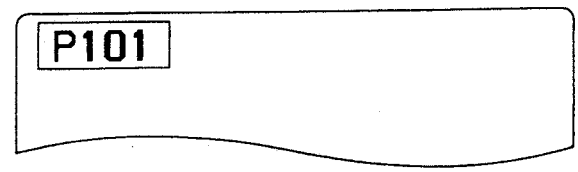
To resume normal teletext reception, press ⊜/⊜.

To enlarge the teletext display
Press ⊜.
Press once to enlarge the upper half of the display ; press again to enlarge the lower half of the display ; And press again to return to the normal display.

To reveal concealed infomation such as the answers to a quiz
Press ⊜ (REVEAL).
Press again to conceal the answers.

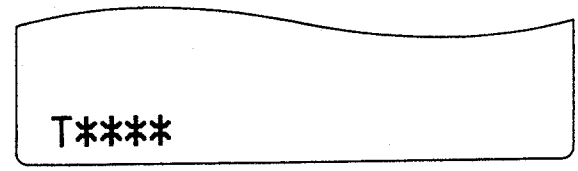
To adjust the contrast of the teletext display.
When in teletext mode, adjust by using the + or − keys adjacent to the ⊜ key.

To watch the TV programme while waiting for a requested page to be displayed
1 Request the new page.
2 Press ⊜ to watch the TV programme.
The requested page number appears at the top left of the screen.
When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.

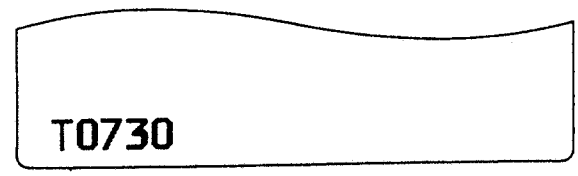


To view this page, press ⊜/⊜.

To have a requested page displayed at a pre-determined time
1 Request a time coded page (e. g. alarm page).
2 Press ⊜ (TP ON).
"T✱✱✱✱" will appear at the bottom of the screen.



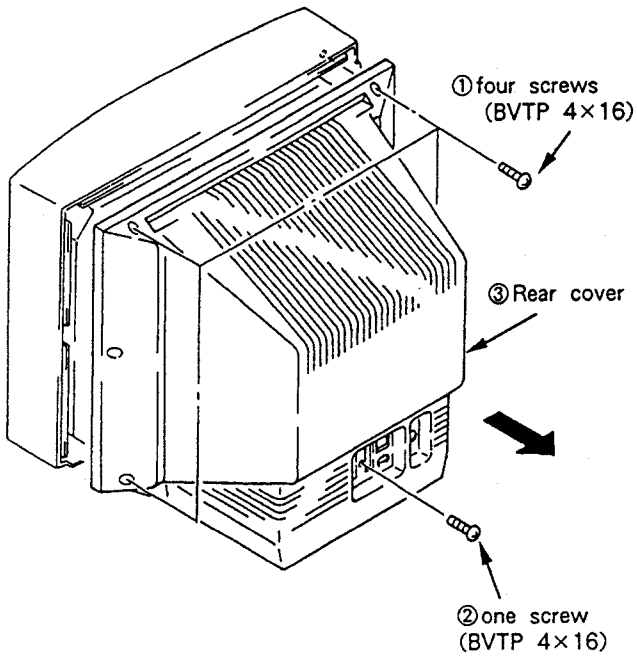
3 Enter your request time with the number buttons, using four digits. For example, 07 : 30.



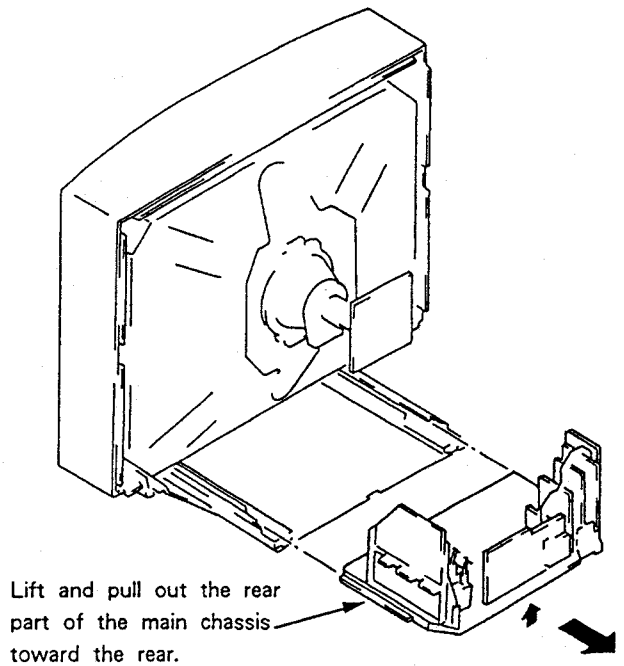
To watch the TV programme until the requested time, press ⊜. At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press ⊜/⊜.
To cancel the request, first ensure that the teletext page is displayed, then press ⊜ (TP OFF).

SECTION 2
DISASSEMBLY

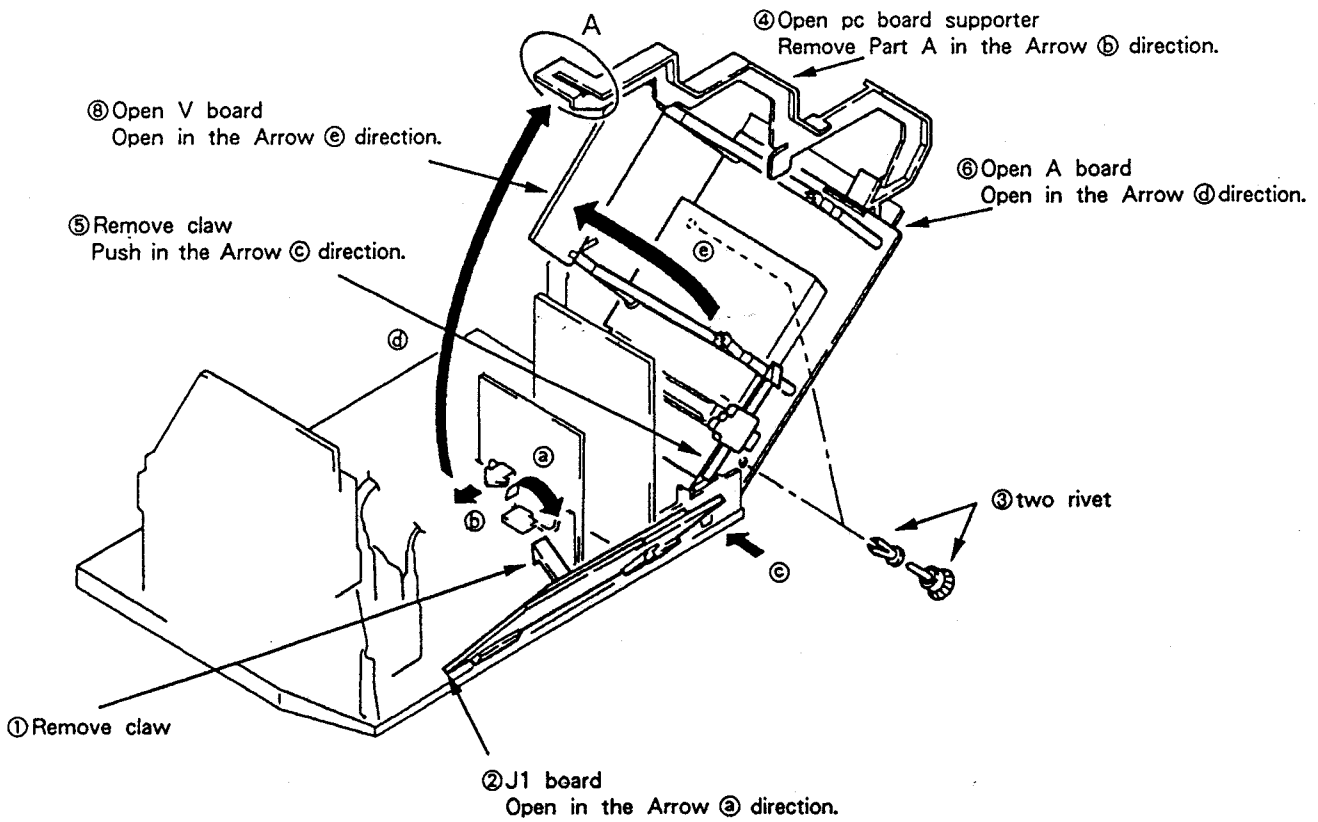
2-1. REAR COVER REMOVAL



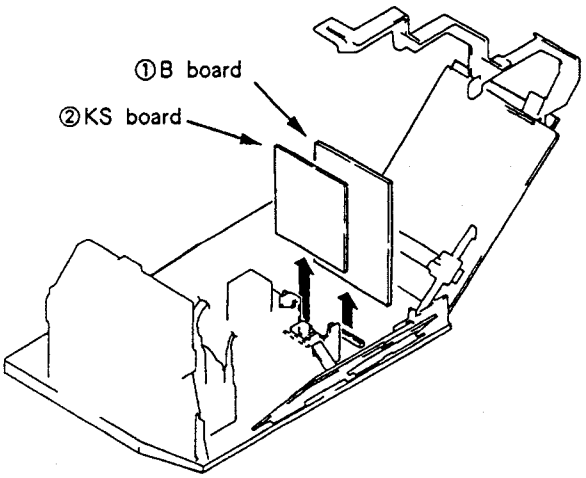
2-2. CHASSIS ASSY REMOVAL



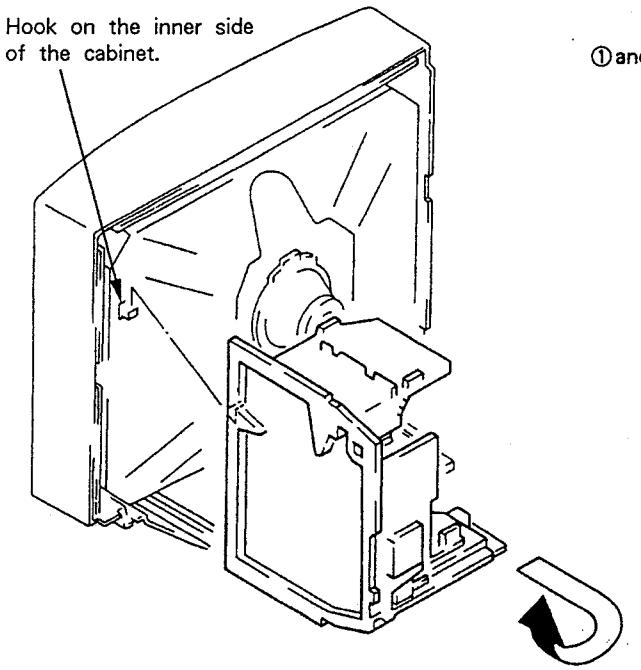
2-3. J1, A AND V BOARDS REMOVAL



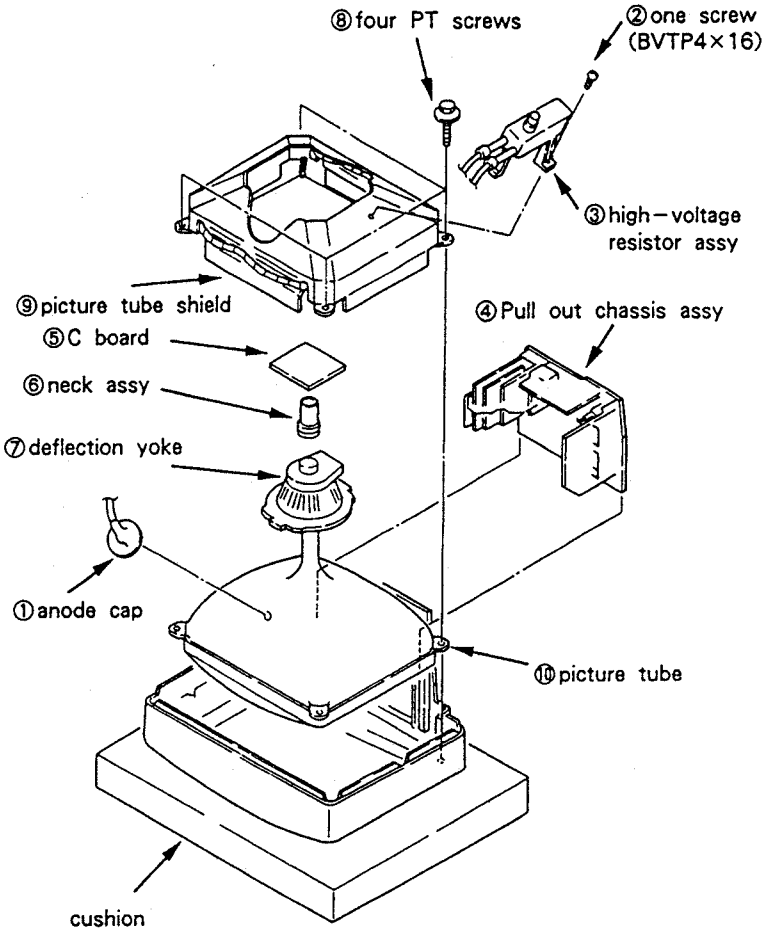
2-4. KS AND B BOARDS REMOVAL



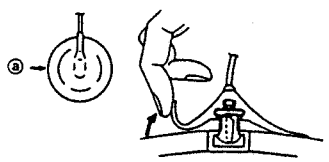
2-5. SERVICE POSITION



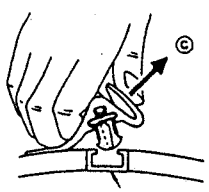
2-6. PICTURE TUBE REMOVAL



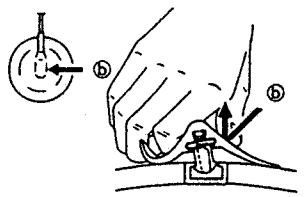
- **Removing Procedures**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑CONTRAST control ····· 80% (or Normal by Commander)
☼BRIGHTNESS control ····· 50%

Perform the adjustments in order as follows :
1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.
1. Colour Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope
6. Frequency counter

Precaution
- Set the side of the unit with the PICTURE TUBE so that it faces east or west in oder to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator. CONTRAST, BRIGHTNESS } normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the centre and blue and green are at the sides, evenly. (Fig. 3-1 to 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3-4)

Fig.3-1

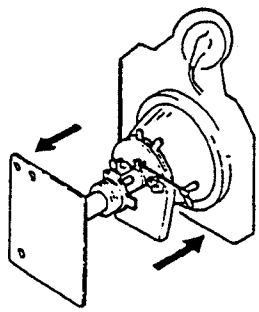


Fig.3-2

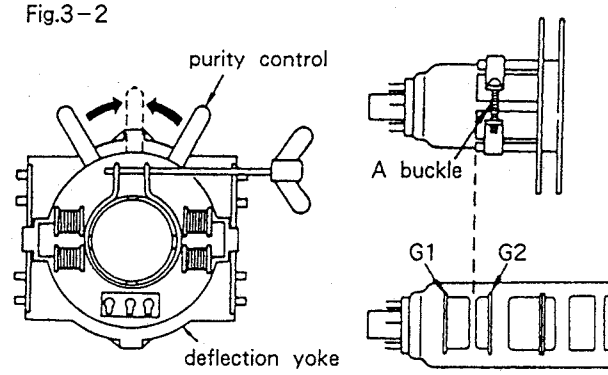


Fig.3-3

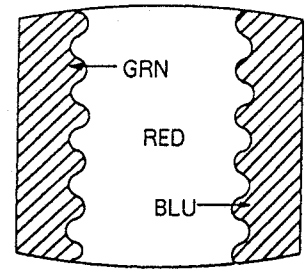
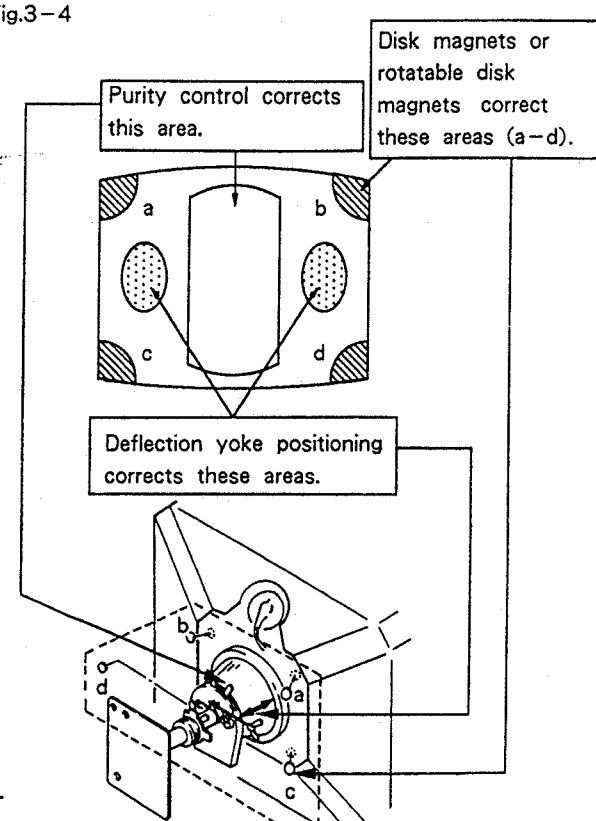


Fig.3-4

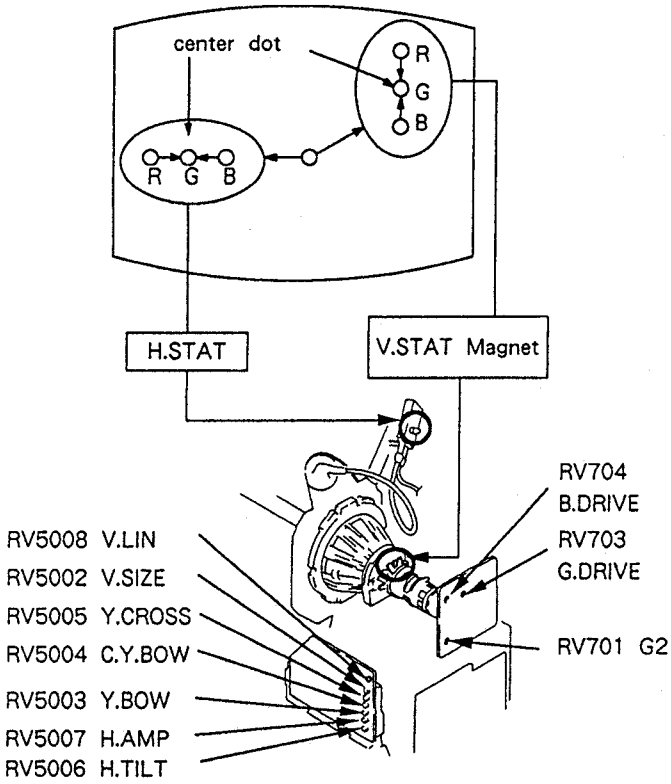


3-2. CONVERGENCE

Preparation :

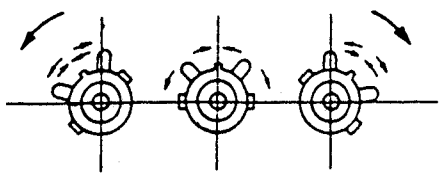
- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

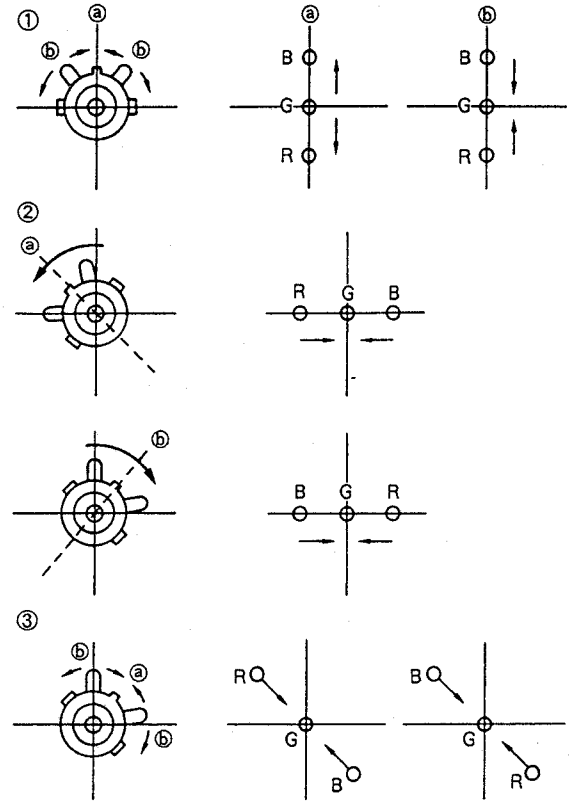


1. Adjust H. STAT VR to coincide red, green and blue dots on the centre of screen. (Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the centre of screen. (Vertical movement)
3. If the red, green and blue dots do not coincide on the centre of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)

- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

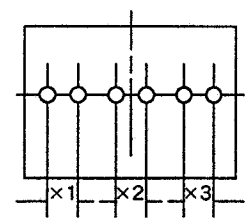


4. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

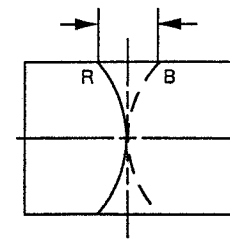


(2) Adjustment of Dynamic Convergence

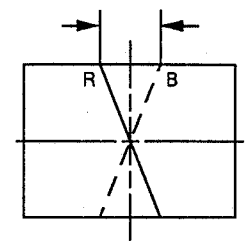
1. Adjust H TILT (RV5006) so that X_1, X_2, and X_3, are equal.
2. Adjust H AMP (RV5007) so that X_2, and X_3, are equal.
3. Adjust H STATIC so that the dots are overlapped.
4. If dynamic convergence is not sufficiently adjusted after performing the above steps, repeat Steps 1 through 3. (Fig. 3-5)



(Fig. 3-5)



(Fig. 3-6)



(Fig. 3-7)

Adjust Y. BOW (RV5003) to correct the arrow-shaped misconvergence along the y axis. (Fig. 3-6)

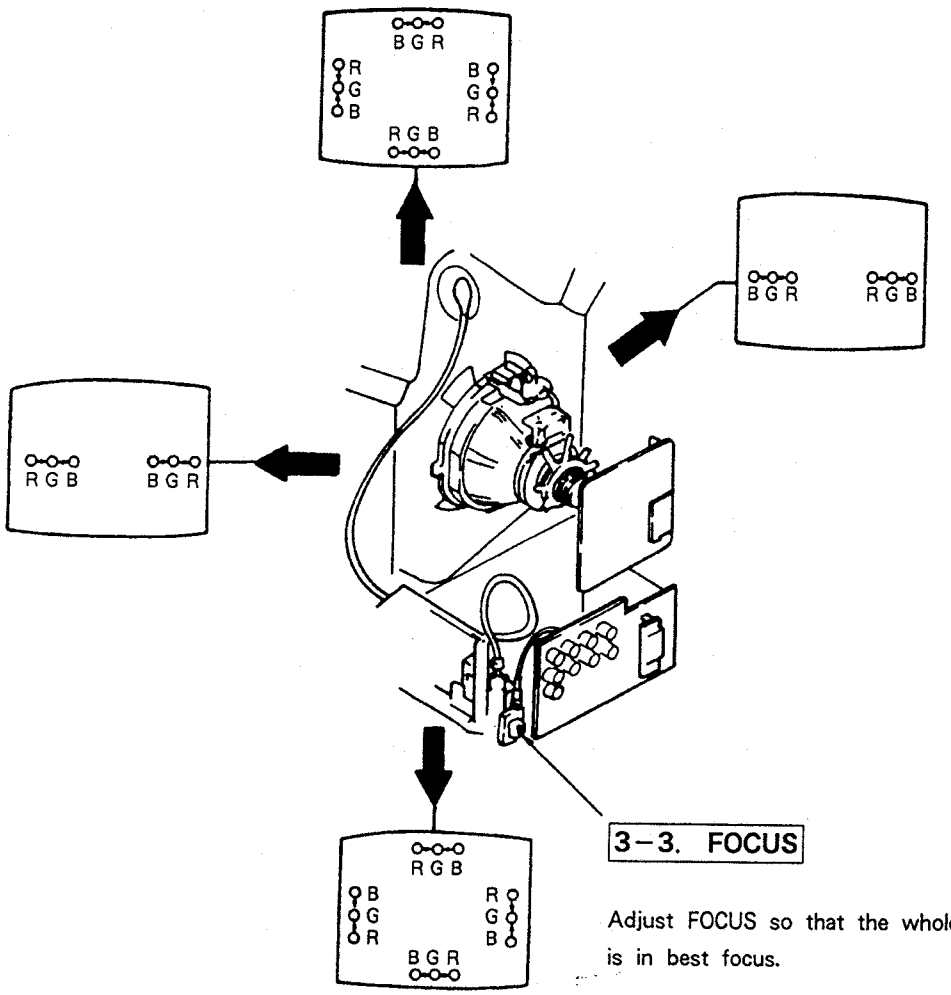
Adjust Y. CROSS (RV5005) to correct the cross misconvergence along the y axis. (Fig. 3-7)

(2) Dynamic Convergence Adjustment

Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

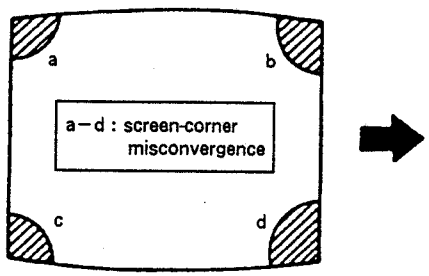
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

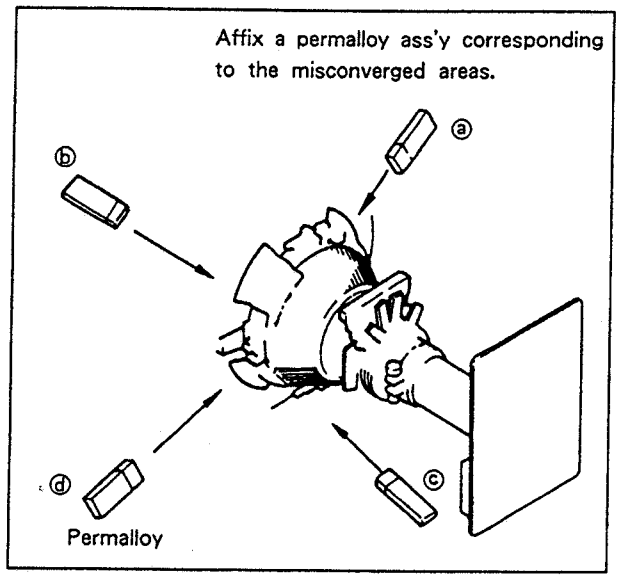


3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

(3) Screen-corner Convergence





3-4. WHITE BALANCE

[Screen (G2) Setting]

1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

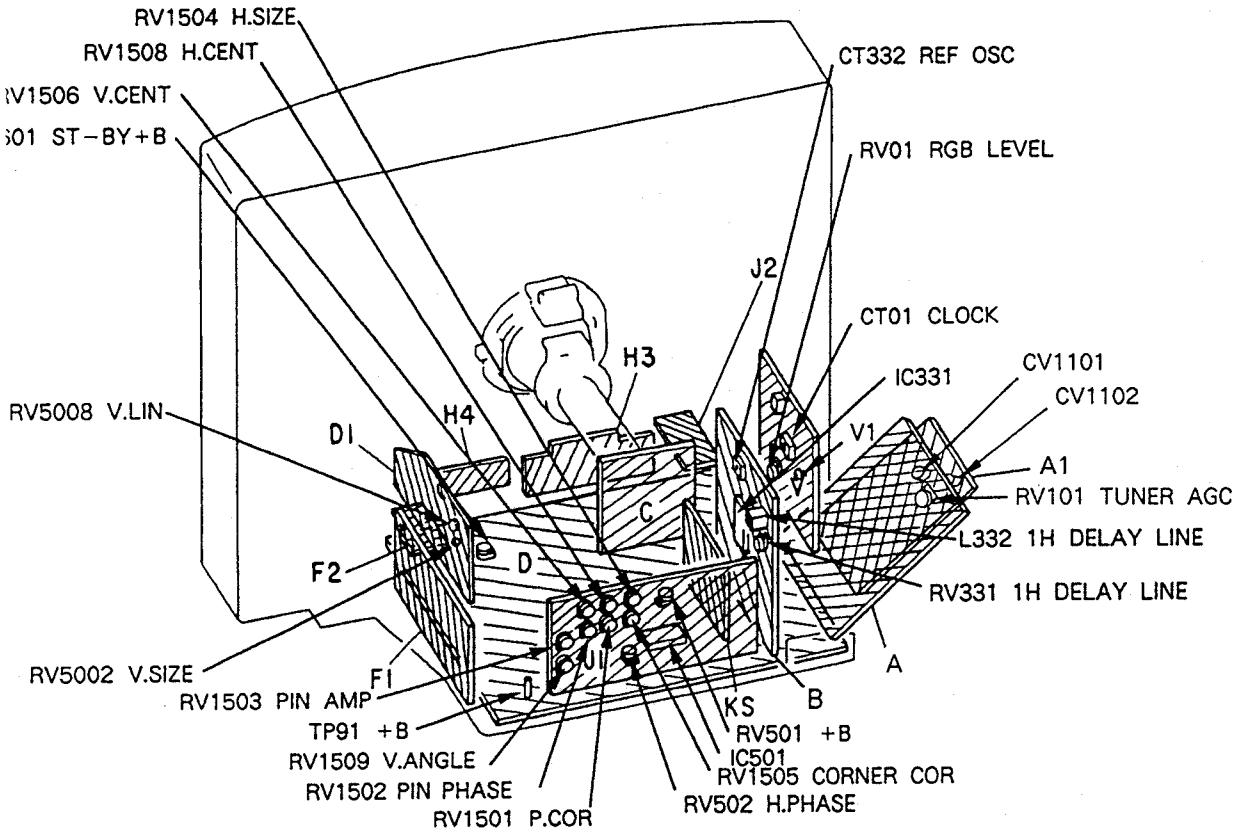
[White Balance Adjustment]

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOUR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOUR and BRIGHTNESS controls are set to normal unless otherwise specified.

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com

SECTION 4
CIRCUIT ADJUSTMENTS



1. A BOARD ADJUSTMENT

NER AGC Adjustment (RV101)

Tune in an off-air signal.

Adjust RV101 so that snow-noise and cross-modulation just disappear from the picture.

2. A1 BOARD ADJUSTMENTS

552 MHz (CARRIER Freq) Adjustment (CV1101)

Tune in a NICAM signal.

Connect the frequency counter to pin ⑧ of IC1101.

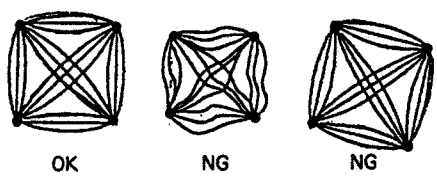
Adjust CV1101 so that frequency becomes 6.552 MHz ±30 Hz.

Confirmation

Connect X input of oscilloscope to IC1101 pin ⑲, and Y to pin ⑳.

Confirm that waveform by X-Y mode.

Confirm that waveform as OK observed deary and without tilt.



3324 MHz (Clock Freq) Adjustment (CV1102)

Tune in a NICAM signal.

2. Connect the frequency counter to pin ㉖ of IC1101.
3. Adjust CV1102 so that frequency becomes 5.824 MHz ±30 Hz.

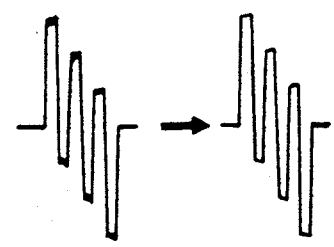
4-3. B BOARD ADJUSTMENTS

REF OSC Adjustment (CT332)

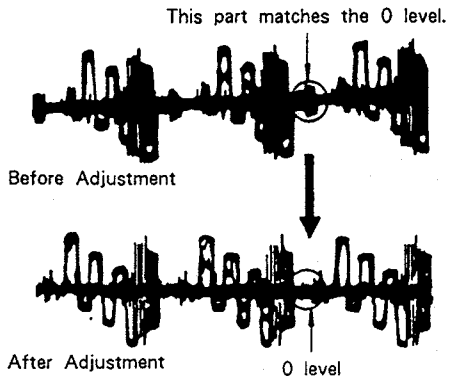
1. Input a PAL COLOUR BAR pattern.
2. Short circuit between pin ⑪ of IC331 and ground.
3. Adjust CT332 to obtain colour synchronization.
4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)

1. Input a PAL COLOUR BAR pattern.
2. Connect the oscilloscope to pin ② (B-Y) of IC331 and observe the waveform of the H block on the oscilloscope.
3. Adjust L332 to minimize the double waveform outline.



4. Input a TEST COLOUR BAR pattern.
5. Rotate the RV331 control and adjust till the ANTI-PAL of the waveform matches the 0 level.



6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

4-4. D BOARD ADJUSTMENTS

+B Adjustment (RV501)

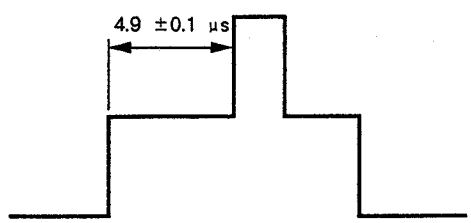
1. Connect a Digital Multimeter to TP91.
2. Adjust RV501 so that the voltage becomes 135 ±0.2 V.

ST-BY +B Adjustment (RV601)

1. Set up ⏻ standby (Remote Commander) mode.
2. Connect the Digital Multimeter to TP91.
3. Adjust RV601 so that the voltage becomes 135 ±3 V.
4. Release the ⏻ standby (Remote Commander) mode.

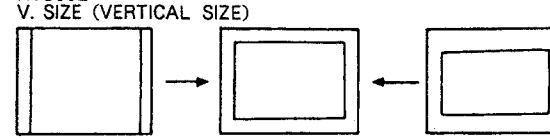
H. PHASE Adjustment (RV502)

1. Input a PAL TEST COLOUR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical centre position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to 5.6 ±0.1 µs.

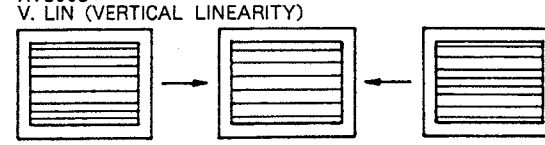


4-5. D1 BOARD ADJUSTMENTS

RV5002
V. SIZE (VERTICAL SIZE)

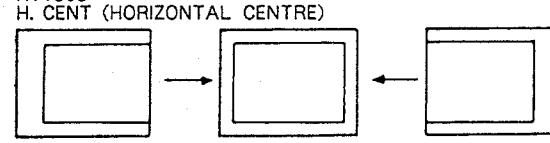


RV5008
V. LIN (VERTICAL LINEARITY)

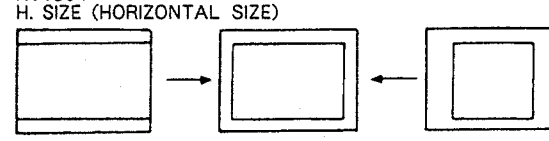


4-6. J1 BOARD ADJUSTMENTS

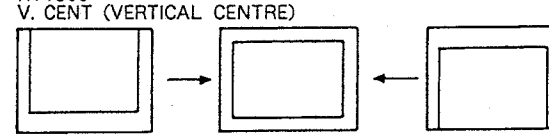
RV1508
H. CENT (HORIZONTAL CENTRE)



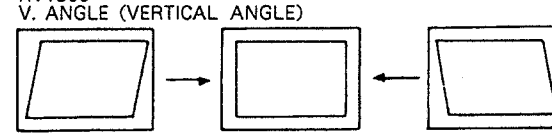
RV1504
H. SIZE (HORIZONTAL SIZE)



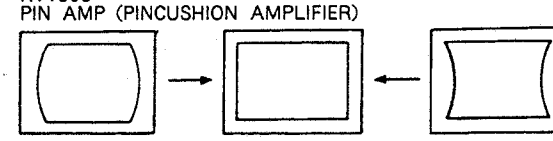
RV1506
V. CENT (VERTICAL CENTRE)



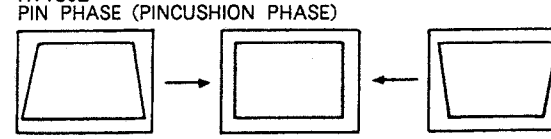
RV1509
V. ANGLE (VERTICAL ANGLE)



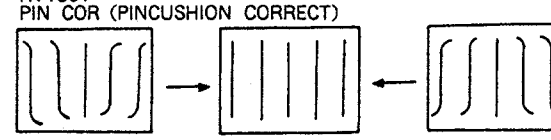
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



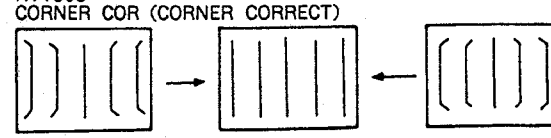
RV1502
PIN PHASE (PINCUSHION PHASE)



RV1501
PIN COR (PINCUSHION CORRECT)



RV1505
CORNER COR (CORNER CORRECT)



4-7. V BOARD ADJUSTMENTS

Clock Adjustment (CT01)

1. Disconnect the V-1 connector.
2. Set up the TELE TEXT mode.
3. Adjust CT01 to stop pictures from scrolling.

RGB Level Adjustment (RV01)

1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes 0.65 V.

4-8. SUB ADJUSTMENTS

SUB BRIGHTNESS Adjustment

1. Receive and display a TEST COLOUR BAR pattern.
2. Push →•← on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Reduce the ◑CONTRAST to the minimum level.
6. Adjust the ☼BRIGHTNESS control until the 0 IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.
7. Push the AFT button. (SUB mode is cleared)

Where no TEST COLOUR BAR pattern is available.

1. Display a COLOUR BAR pattern.
2. Push →•← on the remote commander to invoke the normal state.
   Set the ✇COLOUR to normal mode.

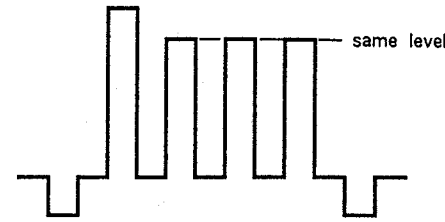
Steps 3 – 5 are the same as above.

6. 20 IRE is close to blue, so adjust the ☼BRIGHTNESS control till blue is faintly luminous.
7. Same as Step 7 above.
8. Push →•← on the remote commander to invoke the normal state.

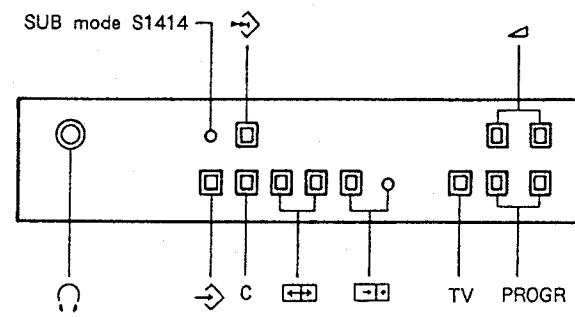
* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.

SUB COLOUR Adjustment

1. Display a COLOUR BAR pattern.
2. Push →•← on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Adjust the COLOUR control until the B out (pin ② of CNC72 connector on C board) waveform becomes as shown below.
6. Push the AFT button. (SUB mode is cleared.)



* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment with 30 seconds, or repeat from Step 4.



A1

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1111	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1112	1-249-413-11	CARBON	470	5%	1/4W	
R1113	1-249-437-11	CARBON	47K	5%	1/4W	
R1114	1-249-437-11	CARBON	47K	5%	1/4W	
R1115	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1116	1-247-883-00	CARBON	150K	5%	1/4W	
R1117	1-247-887-00	CARBON	220K	5%	1/4W	
R1118	1-249-414-11	CARBON	560	5%	1/4W	
R1119	1-249-415-11	CARBON	680	5%	1/4W	
R1120	1-249-417-11	CARBON	1K	5%	1/4W	
R1121	1-249-436-11	CARBON	39K	5%	1/4W	
R1122	1-249-436-11	CARBON	39K	5%	1/4W	
R1123	1-249-413-11	CARBON	470	5%	1/4W	
R1124	1-249-417-11	CARBON	1K	5%	1/4W	
R1127	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1129	1-249-414-11	CARBON	560	5%	1/4W	
R1130	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1131	1-249-434-11	CARBON	27K	5%	1/4W	
R1132	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1133	1-249-434-11	CARBON	27K	5%	1/4W	
R1134	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1136	1-249-414-11	CARBON	560	5%	1/4W	
R1137	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1138	1-249-434-11	CARBON	27K	5%	1/4W	
R1139	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1140	1-249-434-11	CARBON	27K	5%	1/4W	
R1147	1-249-441-11	CARBON	100K	5%	1/4W	
R1148	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1149	1-249-409-11	CARBON	220	5%	1/4W	
R1150	1-215-909-11	METAL OXIDE	47	5%	3W	F
R1151	1-249-429-11	CARBON	10K	5%	1/4W	
R1152	1-249-435-11	CARBON	33K	5%	1/4W	
R1153	1-249-435-11	CARBON	33K	5%	1/4W	
R1154	1-249-435-11	CARBON	33K	5%	1/4W	
R1155	1-249-435-11	CARBON	33K	5%	1/4W	
R1156	1-249-435-11	CARBON	33K	5%	1/4W	
R1157	1-249-435-11	CARBON	33K	5%	1/4W	
R1158	1-249-437-11	CARBON	47K	5%	1/4W	
R1159	1-249-437-11	CARBON	47K	5%	1/4W	
R1160	1-249-417-11	CARBON	1K	5%	1/4W	
R1161	1-249-429-11	CARBON	10K	5%	1/4W	
R1162	1-249-431-11	CARBON	15K	5%	1/4W	
R1163	1-249-433-11	CARBON	22K	5%	1/4W	
R1164	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1165	1-249-433-11	CARBON	22K	5%	1/4W	
R1166	1-249-433-11	CARBON	22K	5%	1/4W	
R1167	1-249-437-11	CARBON	47K	5%	1/4W	
R1168	1-249-441-11	CARBON	100K	5%	1/4W	
R1169	1-249-433-11	CARBON	22K	5%	1/4W	
R1170	1-249-409-11	CARBON	220	5%	1/4W	
R1171	1-249-409-11	CARBON	220	5%	1/4W	
R1172	1-249-409-11	CARBON	220	5%	1/4W	
R1173	1-249-439-11	CARBON	68K	5%	1/4W	
R1174	1-249-437-11	CARBON	47K	5%	1/4W	
R1175	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1176	1-249-405-11	CARBON	100	5%	1/4W	
R1177	1-249-437-11	CARBON	47K	5%	1/4W	
R1179	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1181	1-249-405-11	CARBON	100	5%	1/4W	
R1182	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1183	1-249-413-11	CARBON	470	5%	1/4W	
R1184	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1185	1-249-413-11	CARBON	470	5%	1/4W	
R1186	1-249-429-11	CARBON	10K	5%	1/4W	
R1187	1-249-431-11	CARBON	15K	5%	1/4W	
R1189	1-249-429-11	CARBON	10K	5%	1/4W	
R1190	1-249-431-11	CARBON	15K	5%	1/4W	
R1191	1-249-429-11	CARBON	10K	5%	1/4W	
R1192	1-249-429-11	CARBON	10K	5%	1/4W	
R1193	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1194	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1195	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1196	1-249-419-11	CARBON	1.5K	5%	1/4W	

<CRYSTAL>

X1101	1-577-251-11	VIBRATOR, CRYSTAL	
X1102	1-577-252-11	VIBRATOR, CRYSTAL	
X1103	1-577-253-11	VIBRATOR, CERAMIC	

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1135-600-A	B BOARD, COMPLETE **********			
		<CAPACITOR>			
C301	1-106-228-00	MYLAR	0.22MF	10% 100V	
C302	1-106-228-00	MYLAR	0.22MF	10% 100V	
C303	1-126-101-11	ELECT	100MF	20% 16V	
C304	1-106-228-00	MYLAR	0.22MF	10% 100V	
C305	1-124-119-00	ELECT	330MF	20% 16V	
C306	1-124-902-00	ELECT	0.47MF	20% 50V	
C307	1-124-902-00	ELECT	0.47MF	20% 50V	
C308	1-124-902-00	ELECT	0.47MF	20% 50V	
C309	1-124-902-00	ELECT	0.47MF	20% 50V	
C310	1-106-220-00	MYLAR	0.1MF	10% 100V	
C311	1-106-220-00	MYLAR	0.1MF	10% 100V	
C312	1-124-902-00	ELECT	0.47MF	20% 50V	
C313	1-124-902-00	ELECT	0.47MF	20% 50V	
C314	1-124-902-00	ELECT	0.47MF	20% 50V	
C315	1-124-791-11	ELECT	1MF	20% 50V	
C319	1-124-477-11	ELECT	47MF	20% 16V	
C322	1-163-113-00	CERAMIC CHIP	68PF	5% 50V	
C325	1-124-477-11	ELECT	47MF	20% 16V	
C326	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
C327	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
C332	1-124-119-00	ELECT	330MF	20% 16V	
C333	1-163-033-00	CERAMIC CHIP	0.022MF	50V	
C335	1-163-035-00	CERAMIC CHIP	0.047MF	50V	
C336	1-106-367-00	MYLAR	0.01MF	10% 400V	
C337	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
C346	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	
C347	1-124-791-11	ELECT	1MF	20% 50V	
C349	1-136-173-00	FILM	0.47MF	5% 50V	
C350	1-106-383-00	MYLAR	0.047MF	10% 100V	
C352	1-106-375-12	MYLAR	0.022MF	10% 250V	
C360	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
C365	1-124-477-11	ELECT	47MF	20% 16V	
C366	1-124-477-11	ELECT	47MF	20% 16V	
C367	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
C368	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	
C369	1-163-121-00	CERAMIC CHIP	150PF	5% 50V	
C381	1-124-902-00	ELECT	0.47MF	20% 50V	
C382	1-124-927-11	ELECT	4.7MF	20% 50V	
C384	1-124-477-11	ELECT	47MF	20% 16V	
C385	1-124-927-11	ELECT	4.7MF	20% 50V	
C386	1-124-927-11	ELECT	4.7MF	20% 50V	
C387	1-124-902-00	ELECT	0.47MF	20% 50V	
C1311	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	
C1313	1-163-107-00	CERAMIC CHIP	39PF	5% 50V	
		<CONNECTOR>			
CNB31	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P			
CNB72	*1-564-895-11	PLUG, CONNECTOR 6P			
CNB73	*1-564-880-31	PLUG, CONNECTOR 3P			
CNB93	*1-560-278-41	PLUG, CONNECTOR 6P			
CNB95	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
		<TRIMMER>			
CT332	1-141-181-11	CAP,TRIMMER			
		<DIODE>			
D301	8-719-400-18	DIODE MA152WK			
D302	8-719-400-18	DIODE MA152WK			
D303	8-719-400-18	DIODE MA152WK			
D304	8-719-400-18	DIODE MA152WK			
D305	8-719-400-18	DIODE MA152WK			
D307	8-719-106-62	DIODE RD11M-B2			
D309	8-719-400-18	DIODE MA152WK			
D310	8-719-106-62	DIODE RD11M-B2			
D311	8-719-106-62	DIODE RD11M-B2			
D312	8-719-106-62	DIODE RD11M-B2			
D313	8-719-106-62	DIODE RD11M-B2			
D314	8-719-800-76	DIODE 1SS226			
D315	8-719-800-76	DIODE 1SS226			
D316	8-719-800-76	DIODE 1SS226			
		<DELAY LINE>			
DL331	1-415-122-00	DELAY LINE			
		<IC>			
IC301	8-759-979-85	IC TDA4580-V4			
IC302	8-759-980-60	IC TDA8442-N3			
IC331	8-759-978-61	IC TDA4510/V6			
IC1301	1-235-534-11	CONTROL MODULE, PICTURE			
		<COIL>			
L301	1-410-868-21	INDUCTOR	4.7UH		
L302	1-410-868-21	INDUCTOR	4.7UH		
L304	1-408-409-00	INDUCTOR	10UH		
L331	1-408-408-00	INDUCTOR	8.2UH		
L332	1-404-539-11	COIL			
L339	1-410-868-21	INDUCTOR	4.7UH		
		<TRANSISTOR>			
Q302	8-729-271-22	TRANSISTOR 2SC2712-G			
Q303	8-729-271-22	TRANSISTOR 2SC2712-G			

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q305	8-729-901-00	TRANSISTOR DTC124EK	
Q311	8-729-271-22	TRANSISTOR 2SC2712-G	
Q312	8-729-271-22	TRANSISTOR 2SC2712-G	
Q313	8-729-271-22	TRANSISTOR 2SC2712-G	
Q316	8-729-271-22	TRANSISTOR 2SC2712-G	
Q334	8-729-271-22	TRANSISTOR 2SC2712-G	
Q381	8-729-901-00	TRANSISTOR DTC124EK	
Q382	8-729-271-22	TRANSISTOR 2SC2712-G	
Q1305	8-729-271-22	TRANSISTOR 2SC2712-G	
Q1306	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

JW301	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW302	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW306	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW307	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW1301	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1302	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1303	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW1304	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW1305	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1306	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1307	1-216-295-00	METAL GLAZE	0	5%	1/10W
JW1308	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1310	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1314	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1316	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1317	1-216-296-00	METAL GLAZE	0	5%	1/8W
JW1319	1-216-295-00	METAL GLAZE	0	5%	1/10W
R301	1-216-033-00	METAL GLAZE	220	5%	1/10W
R302	1-216-033-00	METAL GLAZE	220	5%	1/10W
R303	1-216-033-00	METAL GLAZE	220	5%	1/10W
R304	1-216-033-00	METAL GLAZE	220	5%	1/10W
R305	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R308	1-216-043-00	METAL GLAZE	560	5%	1/10W
R309	1-216-025-00	METAL GLAZE	100	5%	1/10W
R310	1-216-025-00	METAL GLAZE	100	5%	1/10W
R311	1-216-025-00	METAL GLAZE	100	5%	1/10W
R312	1-216-033-00	METAL GLAZE	220	5%	1/10W
R313	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R314	1-216-041-00	METAL GLAZE	470	5%	1/10W
R315	1-216-029-00	METAL GLAZE	150	5%	1/10W
R316	1-216-029-00	METAL GLAZE	150	5%	1/10W
R317	1-216-029-00	METAL GLAZE	150	5%	1/10W
R318	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R319	1-216-033-00	METAL GLAZE	220	5%	1/10W
R320	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R321	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R322	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R323	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R324	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R325	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R326	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R327	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R328	1-216-009-00	METAL GLAZE	22	5%	1/10W
R329	1-216-009-00	METAL GLAZE	22	5%	1/10W
R330	1-216-009-00	METAL GLAZE	22	5%	1/10W
R331	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R333	1-216-039-00	METAL GLAZE	390	5%	1/10W
R334	1-216-031-00	METAL GLAZE	180	5%	1/10W
R337	1-216-066-00	METAL GLAZE	5.1K	5%	1/10W
R338	1-216-073-00	METAL GLAZE	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R345	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R346	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
R347	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R348	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R356	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R357	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R358	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R361	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R362	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R363	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R366	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R367	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R368	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R369	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R376	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R378	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R379	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R380	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R381	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R382	1-216-103-00	METAL GLAZE 180K 5% 1/10W	
R383	1-216-111-00	METAL GLAZE 390K 5% 1/10W	
R385	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R386	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R389	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R391	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R392	1-216-019-00	METAL GLAZE 56 5% 1/10W	
R393	1-216-019-00	METAL GLAZE 56 5% 1/10W	
R394	1-216-019-00	METAL GLAZE 56 5% 1/10W	
R398	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1301	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1302	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1303	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1304	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1324	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	

<VARIABLE RESISTOR>

RV331	1-238-009-11	RES, ADJ, CARBON 220

<CRYSTAL>

X332	1-567-131-00	OSCILLATOR, CRYSTAL

<MODULE>

YCM301	1-235-753-21	YC MODULE

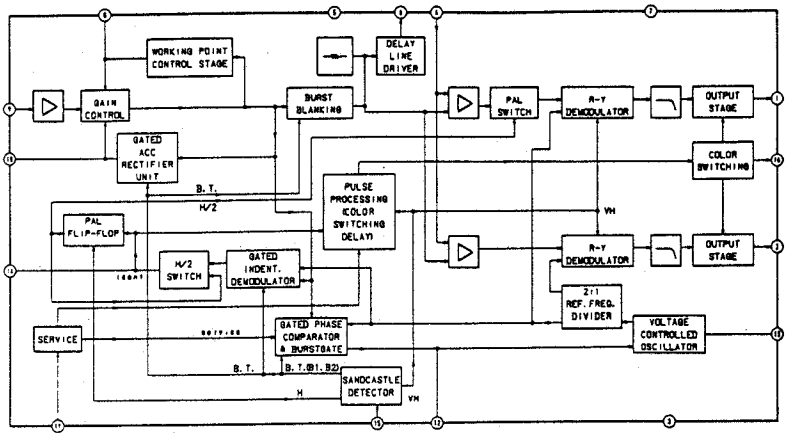
J1

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1388-105-A	J1 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1401	1-123-875-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1404	1-106-375-12	MYLAR	0.022MF	10%	250V
C1405	1-136-017-00	CERAMIC CHIP	0.0047MF		50V
C1406	1-106-375-12	MYLAR	0.022MF	10%	250V
C1407	1-124-477-11	ELECT	47MF	20%	16V
C1408	1-126-101-11	ELECT	100MF	20%	16V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-106-220-00	MYLAR	0.1MF	20%	100V
C1411	1-106-220-00	MYLAR	0.1MF	20%	100V
C1412	1-124-477-11	ELECT	47MF	20%	16V
C1413	1-124-477-11	ELECT	47MF	20%	16V
C1414	1-123-875-11	ELECT	10MF	20%	50V
C1415	1-106-383-00	MYLAR	0.047MF	10%	100V
C1416	1-106-383-00	MYLAR	0.047MF	10%	100V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1421	1-124-477-11	ELECT	47MF	20%	16V
C1423	1-106-375-12	MYLAR	0.022MF	10%	250V
C1424	1-106-375-12	MYLAR	0.022MF	10%	250V
C1425	1-124-902-00	ELECT	0.47MF	20%	50V
C1426	1-124-902-00	ELECT	0.47MF	20%	50V
C1427	1-136-017-00	CERAMIC CHIP	0.0047MF		50V
C1428	1-136-017-00	CERAMIC CHIP	0.0047MF		50V
C1429	1-136-017-00	CERAMIC CHIP	0.0047MF		50V
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1431	1-124-902-00	ELECT	0.47MF	20%	50V
C1432	1-124-902-00	ELECT	0.47MF	20%	50V
C1433	1-126-101-11	ELECT	100MF	20%	16V
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1501	1-123-875-11	ELECT	10MF	20%	50V
C1502	1-123-875-11	ELECT	10MF	20%	50V
C1503	1-108-614-11	MYLAR	0.001MF	10%	100V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-108-620-11	MYLAR	0.0033MF	10%	100V
C1508	1-124-791-11	ELECT	1MF	20%	50V
C1509	1-124-791-11	ELECT	1MF	20%	50V
C1511	1-123-875-11	ELECT	10MF	20%	50V
C1512	1-106-363-00	MYLAR	0.0068MF	10%	400V
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C1514	1-106-353-00	MYLAR	0.027MF	10%	250V
C1515	1-102-117-00	CERAMIC	820PF	10%	50V
C1551	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1552	1-124-122-11	ELECT	100MF	20%	50V
		<CONNECTOR>			
CN1401	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT			
CN1402	1-561-534-41	SOCKET 21P			
CN1403	1-561-534-41	SOCKET 21P			
CNJ25	*1-564-892-41	PLUG, CONNECTOR 3P			
CNJ41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
CNJ43	*1-564-893-11	PLUG, CONNECTOR 4P			
CNJ45	*1-564-895-11	PLUG, CONNECTOR 6P			
CNJ51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
CNJ67	*1-560-721-21	PLUG, CONNECTOR 2P			
CNJ142	*1-564-893-11	PLUG, CONNECTOR 4P			
		<DIODE>			
D1401	8-719-106-23	DIODE RD7.5M-B2			
D1403	8-719-106-23	DIODE RD7.5M-B2			
D1404	8-719-106-23	DIODE RD7.5M-B2			
D1405	8-719-106-23	DIODE RD7.5M-B2			
D1406	8-719-106-23	DIODE RD7.5M-B2			
D1407	8-719-106-53	DIODE RD10M-B2			
D1408	8-719-106-44	DIODE RD9.1M-B2			
D1409	8-719-106-44	DIODE RD9.1M-B2			
D1410	8-719-106-44	DIODE RD9.1M-B2			
D1415	8-719-106-23	DIODE RD7.5M-B2			
D1418	8-719-106-23	DIODE RD7.5M-B2			
D1419	8-719-106-23	DIODE RD7.5M-B2			
D1420	8-719-106-23	DIODE RD7.5M-B2			
D1501	8-719-400-18	DIODE MA152WK			
D1502	8-719-400-18	DIODE MA152WK			
D1504	8-719-400-18	DIODE MA152WK			
D1505	8-719-800-76	DIODE 1SS226			
D1506	8-719-118-15	DIODE RD36M-B			
D1507	8-719-400-18	DIODE MA152WK			
D1509	8-719-400-18	DIODE MA152WK			
D1551	8-719-107-43	DIODE RD24M-B2			
D1552	8-719-300-33	DIODE RU-3AM			
		<IC>			
IC1401	8-752-032-27	IC CXA1114P			
IC1402	8-759-946-32	IC TEA2014A			
IC1501	8-759-942-16	IC TEA2031A			
		<COIL>			
L1401	1-412-240-11	INDUCTOR, WIDE BAND			
L1402	1-412-240-11	INDUCTOR, WIDE BAND			

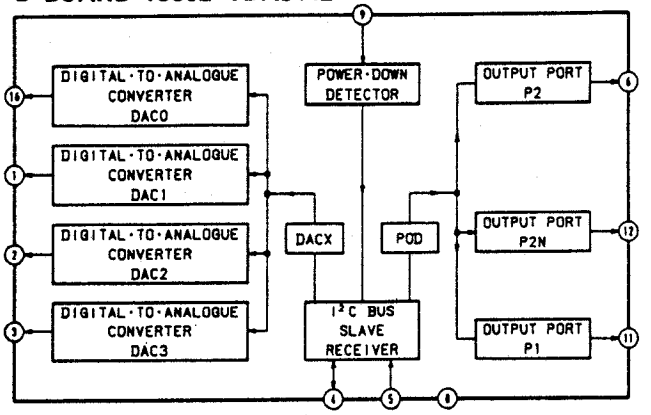
REF.NO.	PART NO.	DESCRIPTION				REMARK
		<TRANSISTOR>				
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1402	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1551	8-729-271-22	TRANSISTOR 2SC2712-G				
Q1552	8-729-140-96	TRANSISTOR 2SD774-34				
		<RESISTOR>				
JW1413	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW1452	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JW1453	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JW1456	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW1457	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JW1458	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW1459	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JW1461	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JW1462	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW1463	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JW1464	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R1401	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1402	1-216-170-00	METAL GLAZE	68	5%	1/8W	
R1403	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1404	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1405	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R1407	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1408	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1410	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1412	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1413	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1414	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1415	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1416	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1417	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1420	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1422	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1423	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1424	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1425	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1426	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1427	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1428	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1429	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1430	1-216-172-00	METAL GLAZE	82	5%	1/8W	
R1433	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1434	1-249-393-11	CARBON	10	5%	1/4W	F
R1437	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R1440	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1441	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1442	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1448	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1452	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R1453	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1456	1-216-025-00	METAL GLAZE	100	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1501	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R1502	1-216-232-00	METAL GLAZE	27K	5%	1/8W	
R1503	1-216-262-00	METAL GLAZE	470K	5%	1/8W	
R1504	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R1505	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R1506	1-216-262-00	METAL GLAZE	470K	5%	1/8W	
R1509	1-216-236-00	METAL GLAZE	39K	5%	1/8W	
R1510	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R1511	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R1512	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R1513	1-216-240-00	METAL GLAZE	56K	5%	1/8W	
R1514	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R1515	1-216-266-00	METAL GLAZE	680K	5%	1/8W	
R1516	1-216-228-00	METAL GLAZE	18K	5%	1/8W	
R1518	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R1519	1-216-250-00	METAL GLAZE	150K	5%	1/8W	
R1520	1-216-262-00	METAL GLAZE	470K	5%	1/8W	
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R1522	1-216-254-00	METAL GLAZE	220K	5%	1/8W	
R1551	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F
R1551	1-215-870-11	METAL OXIDE	1.5K	5%	1W	
R1552	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R1553	1-216-434-11	METAL OXIDE	1.8K	5%	1W	F
R1553	1-216-434-11	METAL OXIDE	1.8K	5%	1W	
R1554	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R1556	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R1558	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R1559	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
		<VARIABLE RESISTOR>				
RV1501	1-238-023-11	RES, ADJ, CARBON 470K				
RV1502	1-224-252-XX	RES, ADJ, METAL GLAZE 10K				
RV1503	1-238-017-11	RES, ADJ, CARBON 22K				
RV1504	1-238-012-11	RES, ADJ, CARBON 1K				
RV1505	1-238-021-11	RES, ADJ, CARBON 220K				
RV1506	1-238-017-11	RES, ADJ, CARBON 22K				
RV1508	1-238-016-11	RES, ADJ, CARBON 10K				
RV1509	1-238-023-11	RES, ADJ, CARBON 470K				

B BOARD IC331 TDA4510



B BOARD IC302 TDA8442



For Service Manuals
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8 Cherry Tree Road, Chinnor
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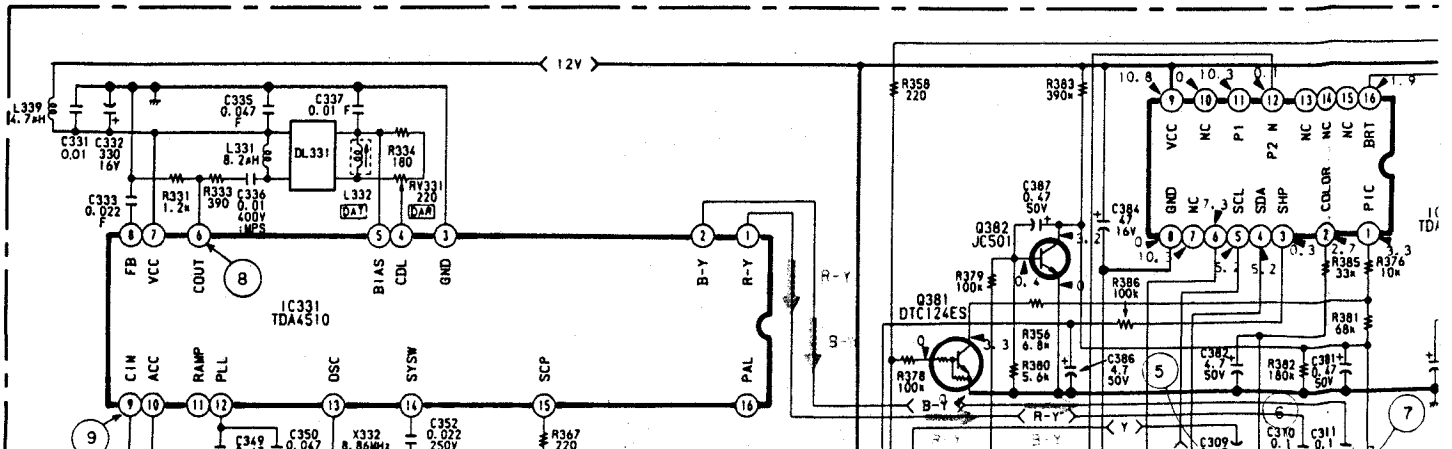
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com

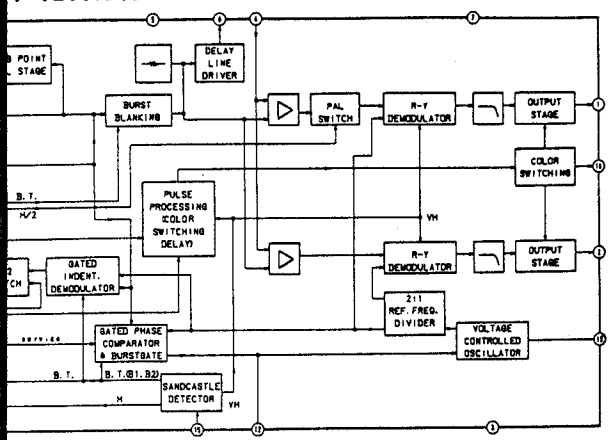
B	IC301	TDA4580	RGB INTERFACE
	302	TDA8442	D/A CONVERTOR
	331	TDA4510	CHROMA DECODER
	1301	HIC2110	Y VM AMP
	Q302	JC501	VIDEO BUFF
	303	JC501	ST BY SW
	305	DTC124ES	BLK SW-1
	311	JC501	CHR OUT
	312	JC501	BLK SW-2
	313	JC501	CHR MIX
	316	JC501	PIC MUTE
	334	JC501	CHROMA OUT-1
	335	JC501	CHROMA OUT-2
	336	JC501	VIDEO AMP
	381	DTC124ES	MUTE
	382	JC501	ABL MUTE
	1305	JC501	P/O
	1306	JA101	Y BUFF
	D301	ISS133	ST BY MUTE-1
	302	ISS133	ST BY MUTE-2
	303	ISS133	ST BY MUTE-3
	304	ISS133	BLK SW
	305	ISS133	ADD
	307	RD11ES-B3	ADD
	309	ISS133	ST BY MUTE

• B BOARD WAVEFORM

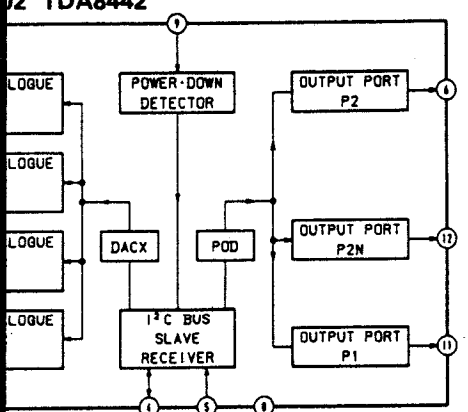
① 6Vp-p(H)	② 6Vp-p(H)	③ 6Vp-p(H)	④ 10.5Vp-p(H)	⑤ 0.4Vp-
⑦ 1.5Vp-p(H)	⑧ 1.6Vp-p(H)	⑨ 0.4Vp-p(H)	⑩ 0.4Vp-p(H)	⑪ 1Vp-



1 TDA4510

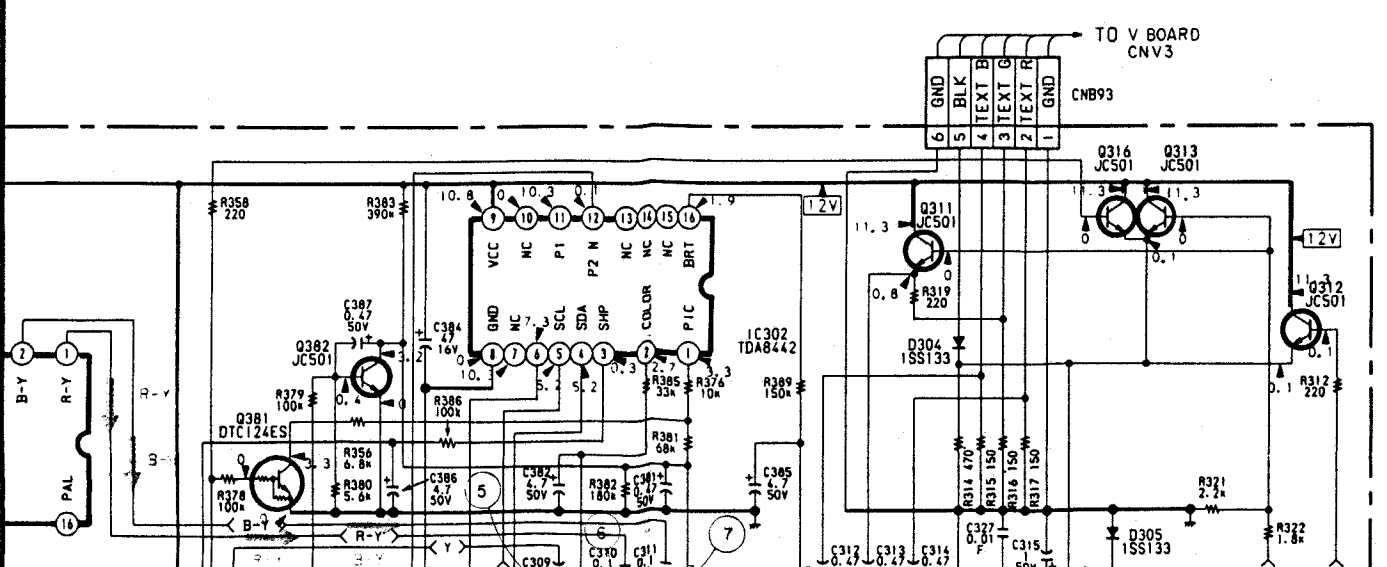


02 TDA8442



WAVEFORM

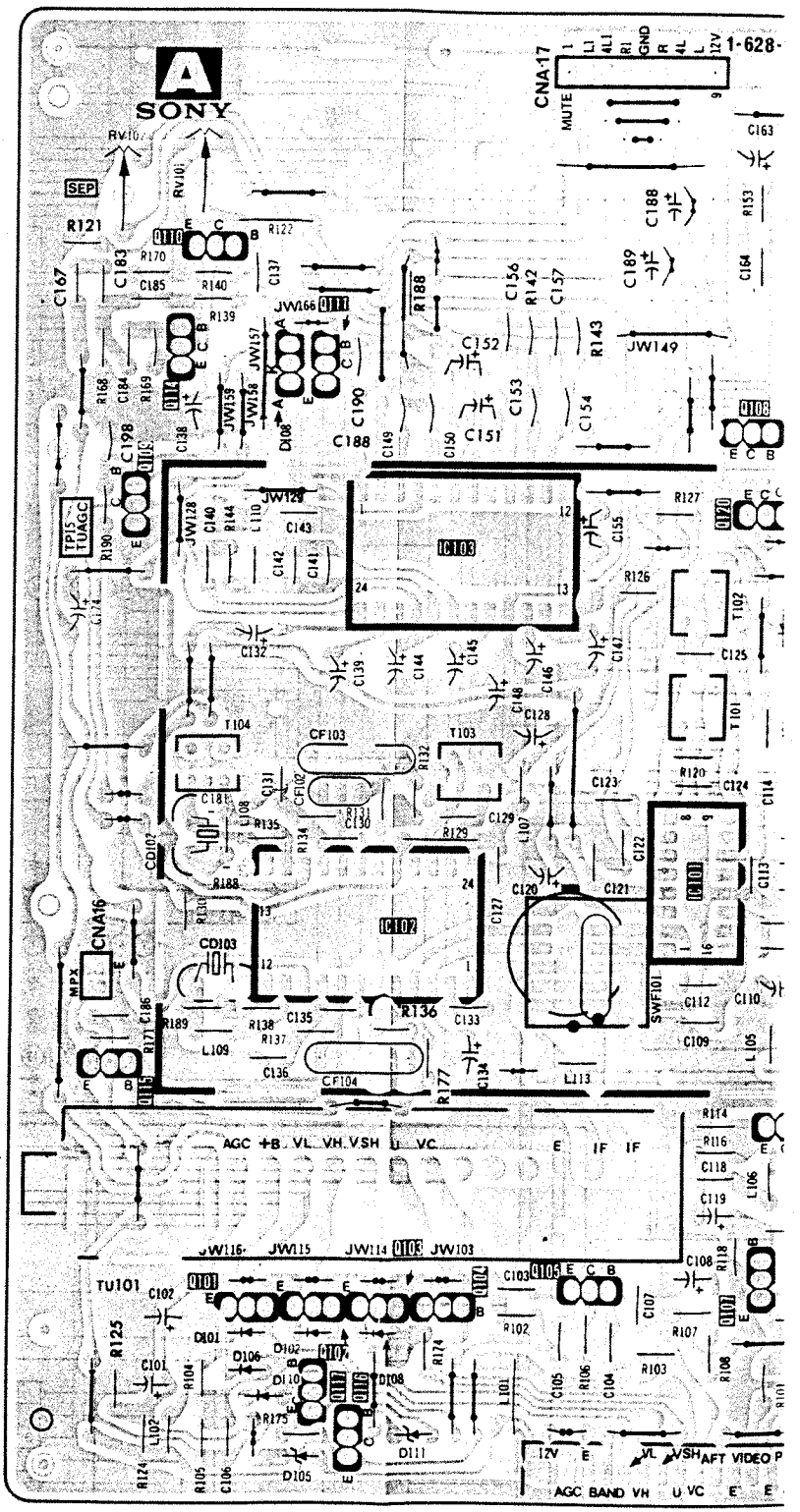
② 6Vp-p(H)	③ 6Vp-p(H)	④ 10.5Vp-p(H)	⑤ 0.4Vp-p(H)	⑥ 0.9Vp-p(H)
⑧ 1.6Vp-p(H)	⑨ 0.4Vp-p(H)	⑩ 0.4Vp-p(H)	⑪ 1Vp-p(H)	⑫ 0.4Vp-p(H)



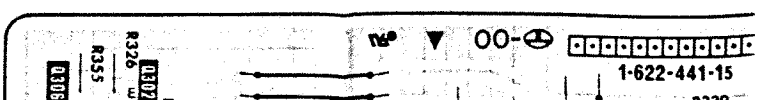
5-4. PRINTED WIRING BOARDS

A [SINGAL TONER VIF, SIF]

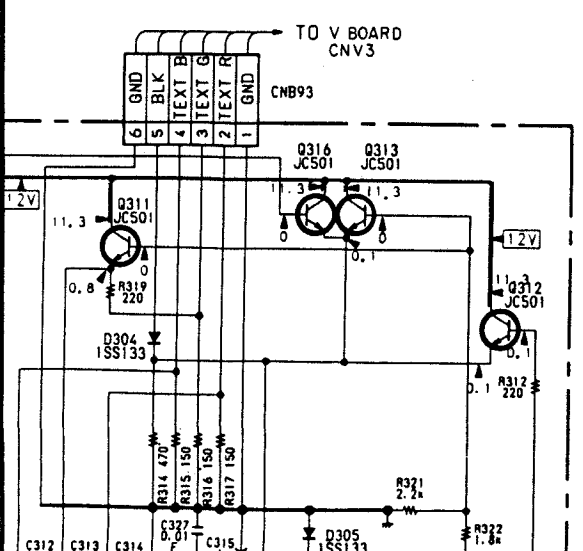
– A Board –



– B Board –



⑥	0.9Vp-p(H)
⑫	0.4Vp-p(H)



NG BOARDS

A [SINGAL TONER VIF, SIF]

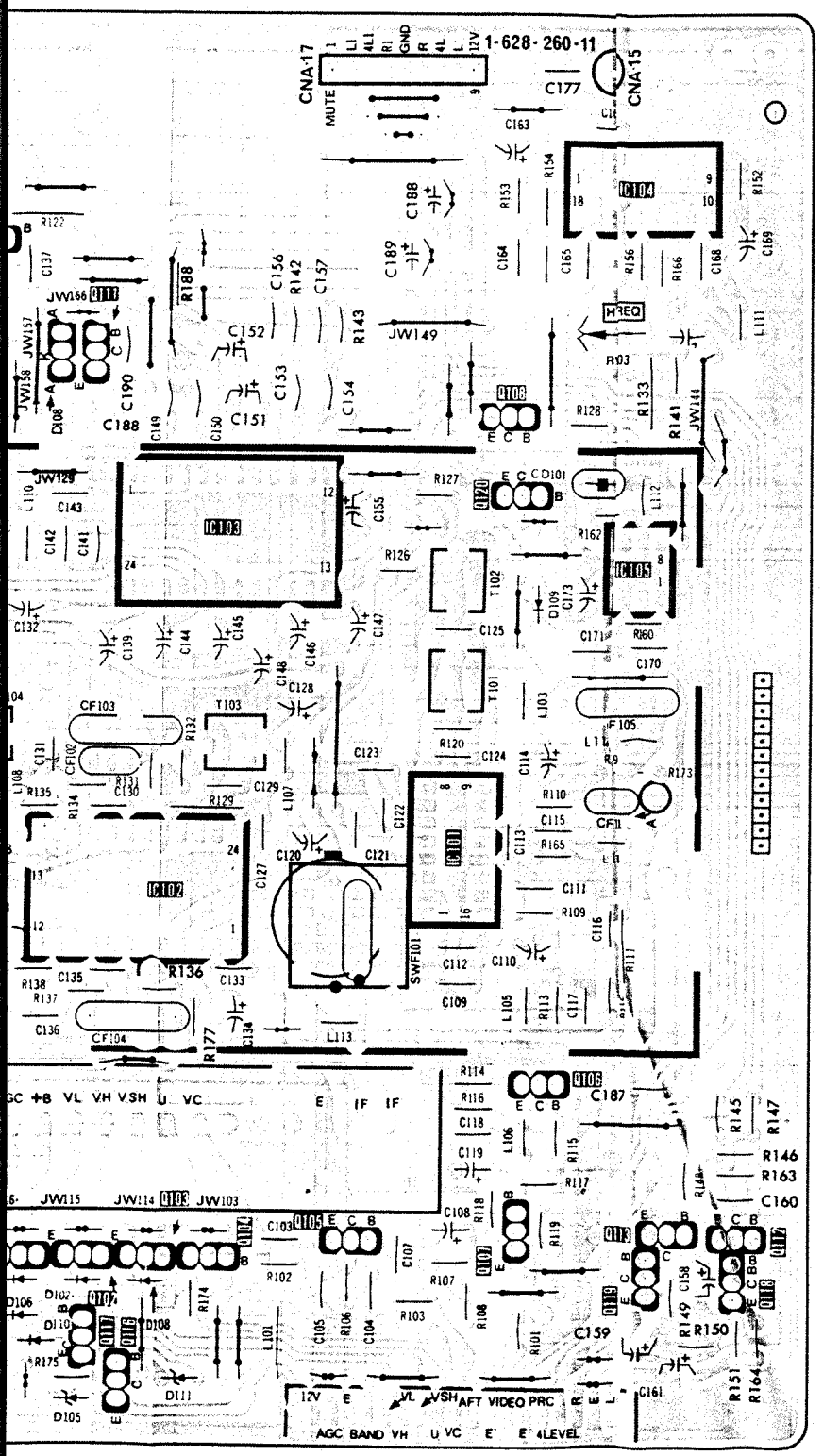
A1 [S RAM, NICAM DECO, D/A CONV, INVERTER AUDIO SW, EQ AMP L・R, QPSK DEMOD]

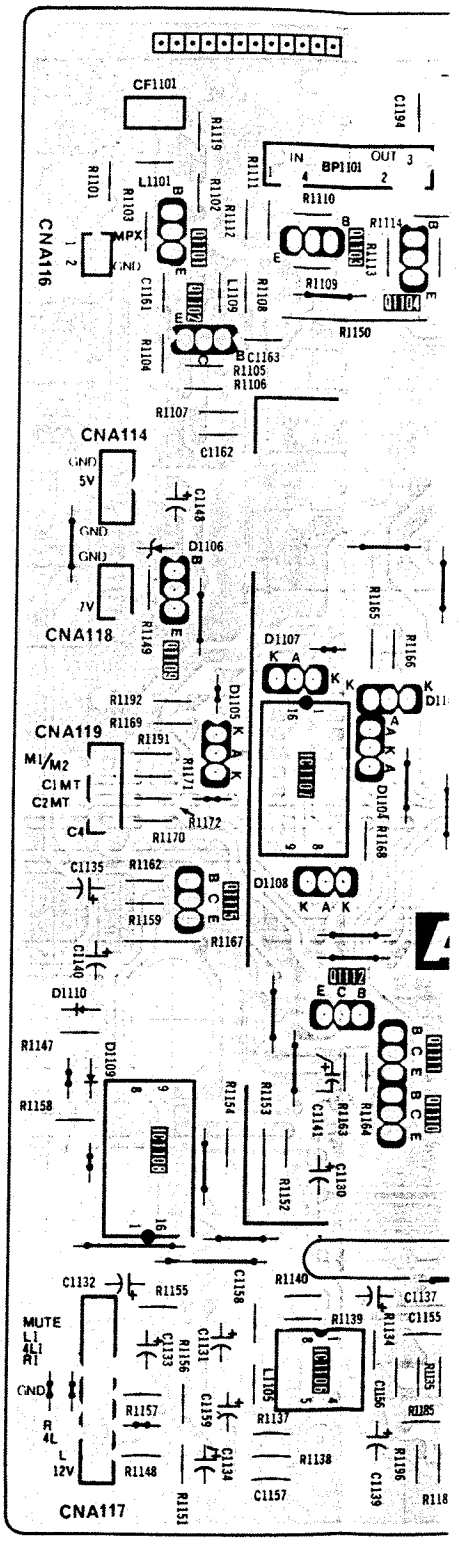
B [Y/CHROMA]

F1 [LINE FILTER]

F

— A1 Board —




CF1101
CNA116
CNA114
CNA118
CNA119
CNA117
BP1101
IN
OUT
L1101
MPX
GND
5V
7V
M1/M2
C1MT
C2MT
D1101
D1102
D1103
D1104
D1105
D1106
D1107
D1108
D1109
D1110
Q1101
Q1102
Q1103
Q1104
Q1105
Q1106
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Q1109
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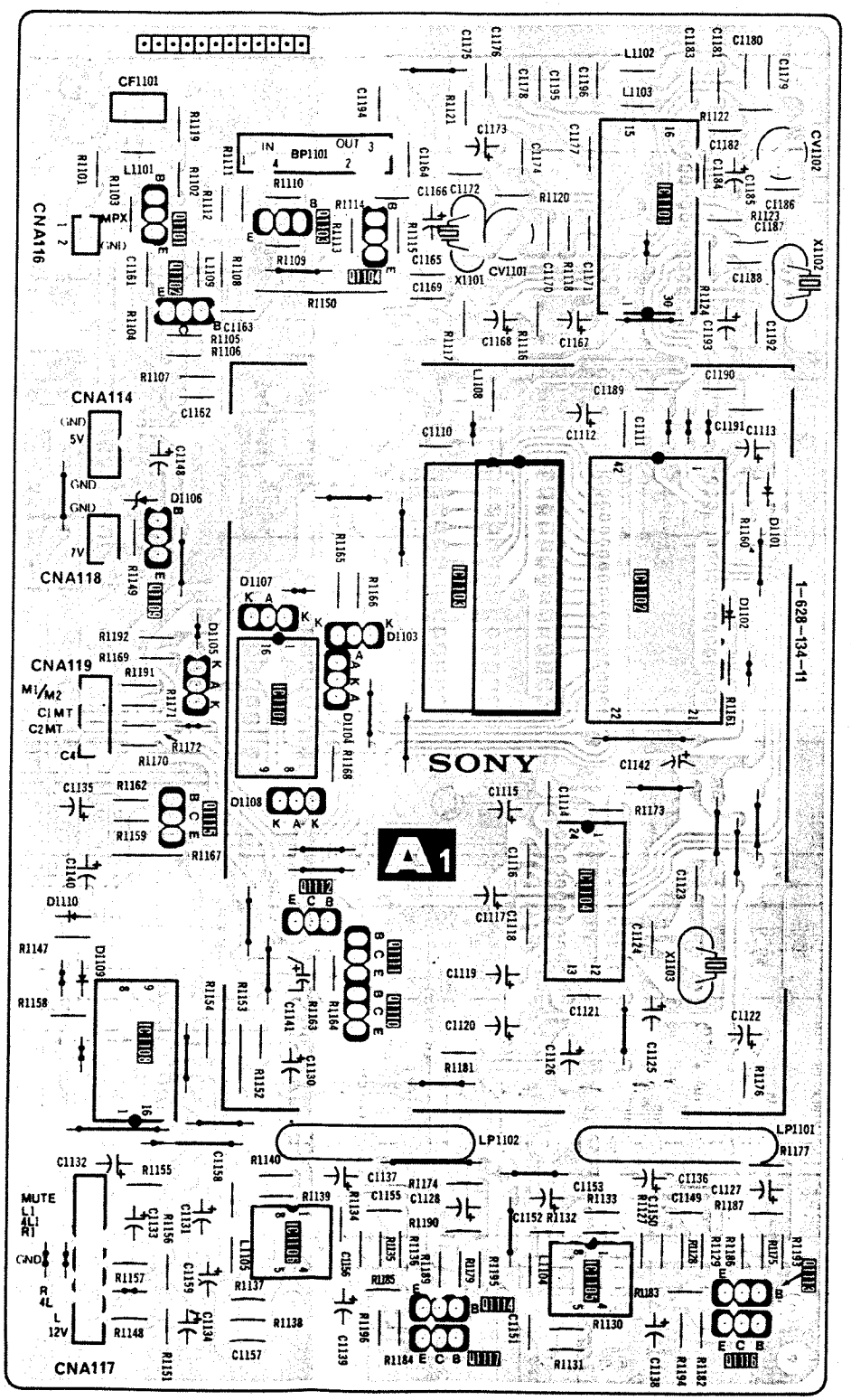
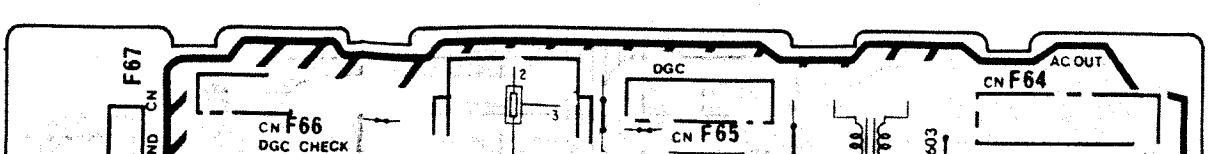
C1138
C1139
C1140

B [Y/CHROMA] **F1** [LINE FILTER] **F2** [POWER SW]

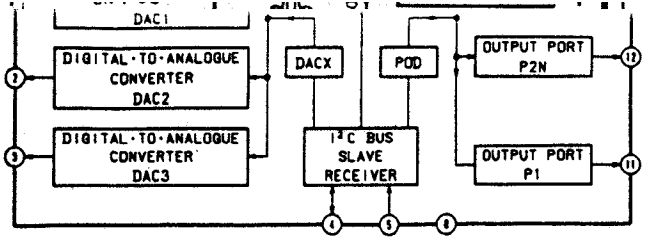
– A1 Board –



– F1 Board –

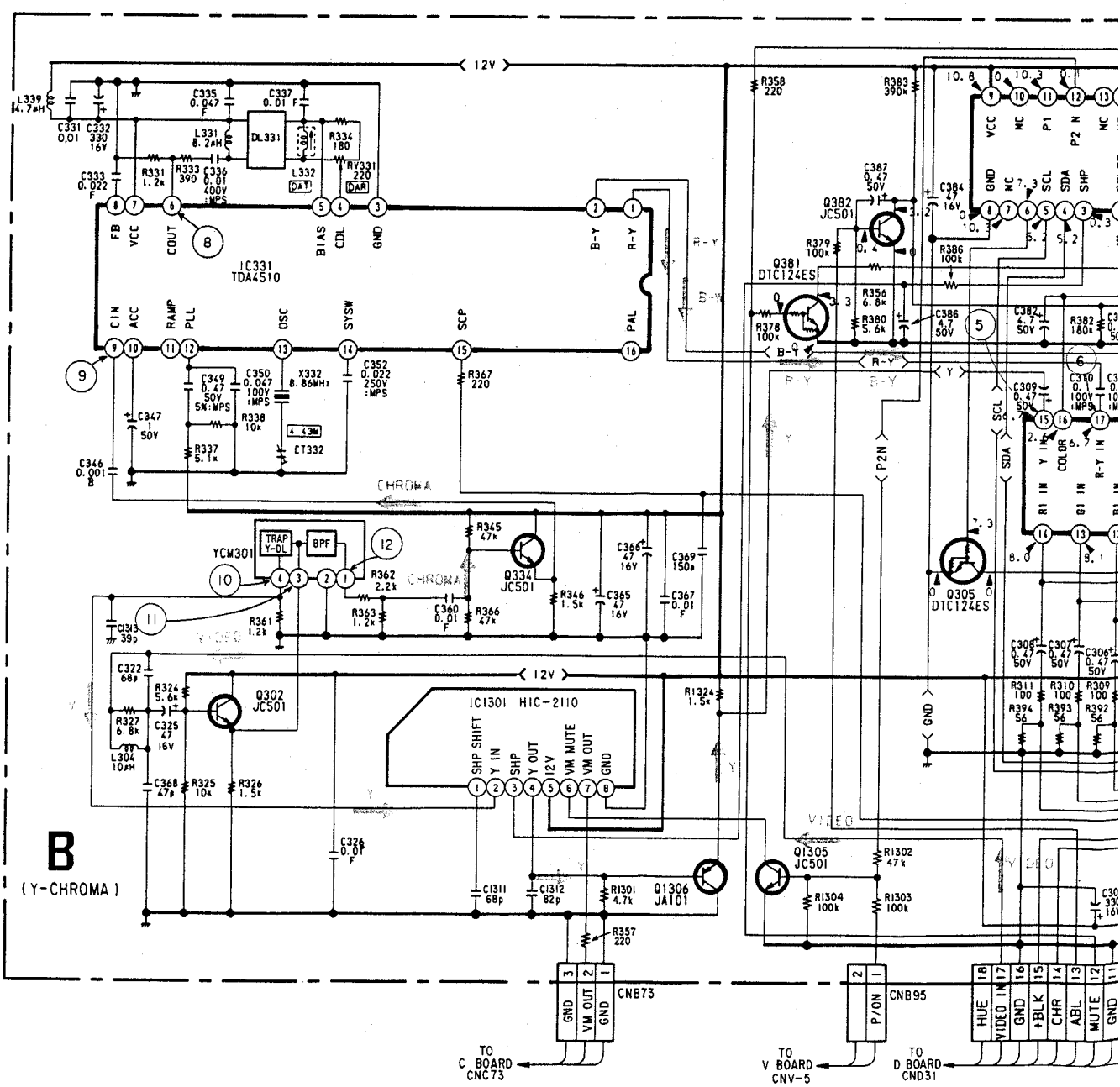


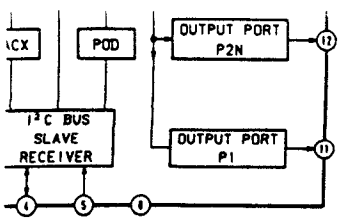
B	IC301	TDA4580	RGB INTERFACE
	302	TDA8442	D/A CONVERTOR
	331	TDA4510	CHROMA DECODER
	1301	HIC2110	Y VM AMP
	Q302	JC501	VIDEO BUFF
	303	JC501	ST BY SW
	305	DTC124ES	BLK SW-1
	311	JC501	CHR OUT
	312	JC501	BLK SW-2
	313	JC501	CHR MIX
	316	JC501	PIC MUTE
	334	JC501	CHROMA OUT-1
	335	JC501	CHROMA OUT-2
	336	JC501	VIDEO AMP
	381	DTC124ES	MUTE
	382	JC501	ABL MUTE
	1305	JC501	P/O
	1306	JA101	Y BUFF
	D301	ISS133	ST BY MUTE-1
	302	ISS133	ST BY MUTE-2
	303	ISS133	ST BY MUTE-3
	304	ISS133	BLK SW
	305	ISS133	ADD
	307	RD11ES-B3	ADD
	309	ISS133	ST BY MUTE



• B BOARD WAVEFORM

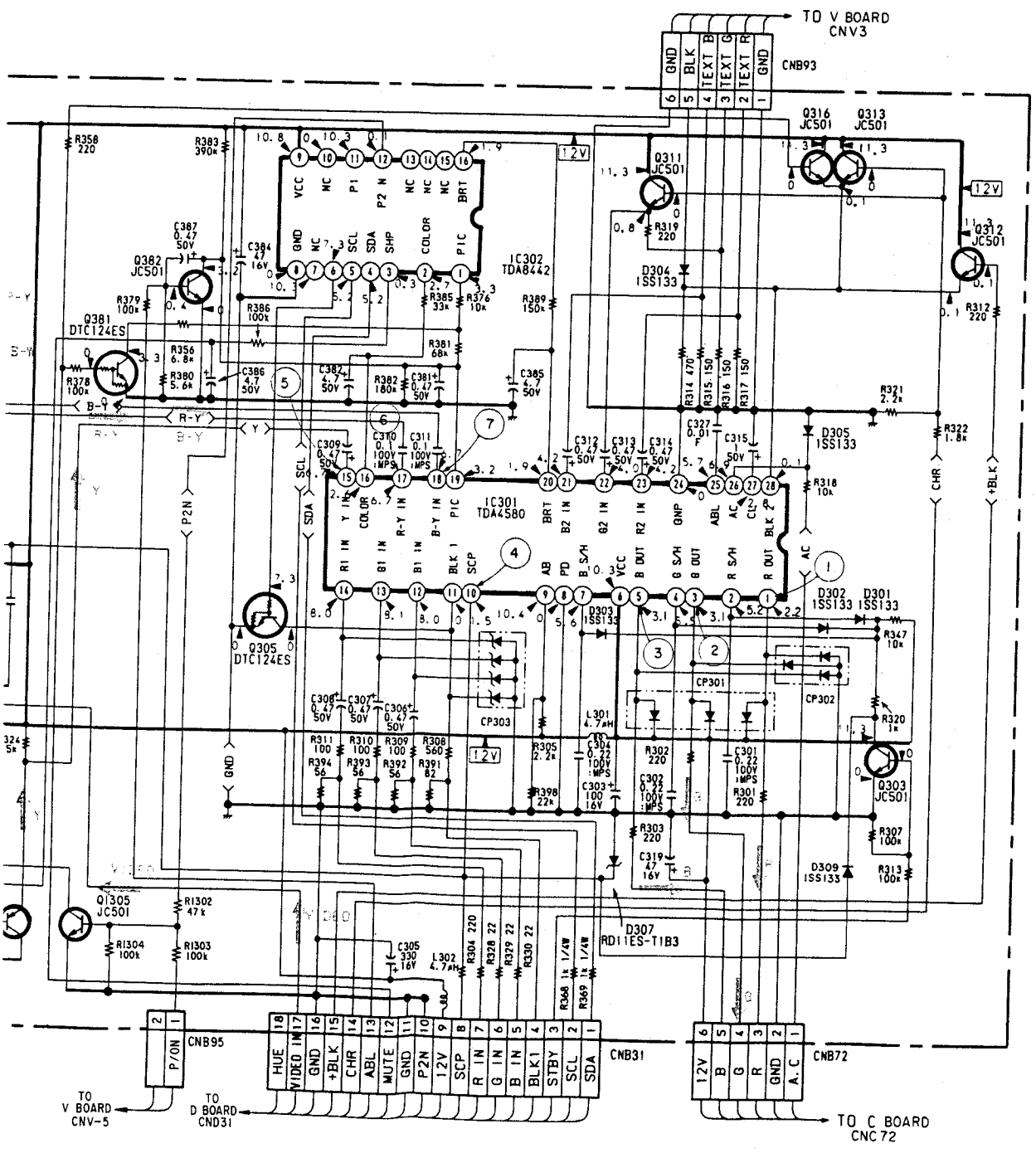
① 6Vp-p(H)	② 6Vp-p(H)	③ 6Vp-p(H)	④ 10.5Vp-p(H)
⑦ 1.5Vp-p(H)	⑧ 1.6Vp-p(H)	⑨ 0.4Vp-p(H)	⑩ 0.4Vp-p(H)

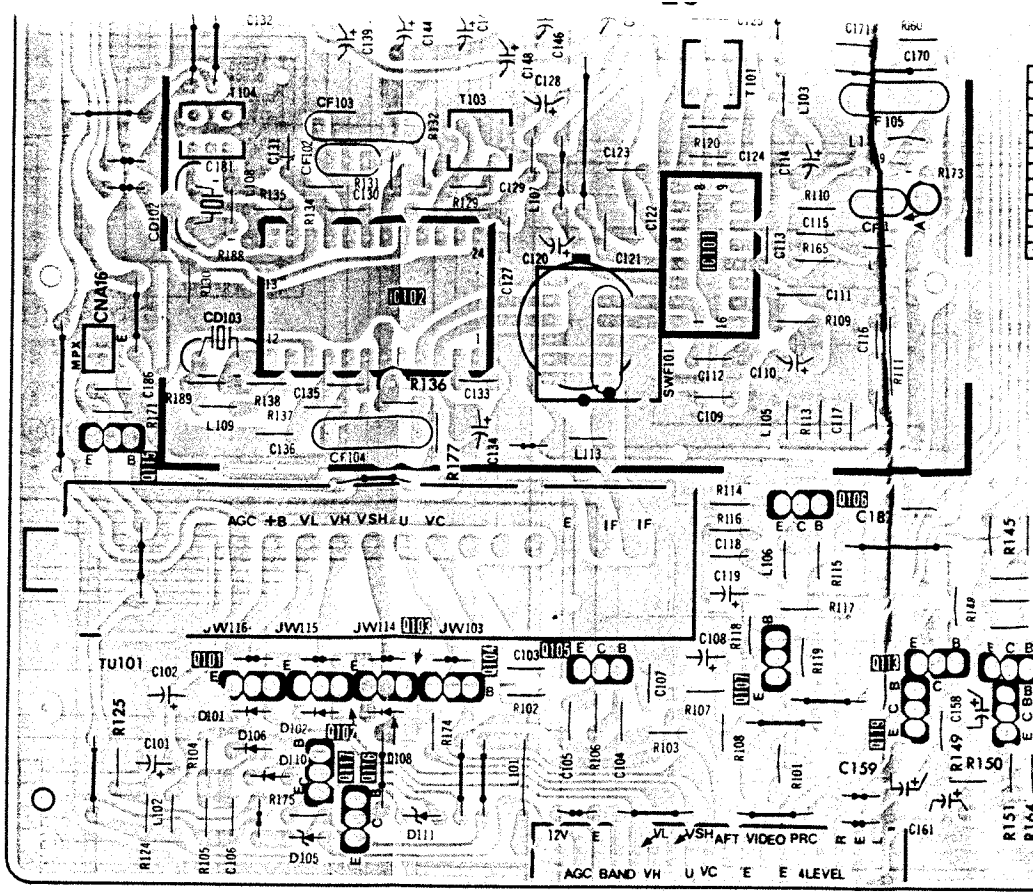


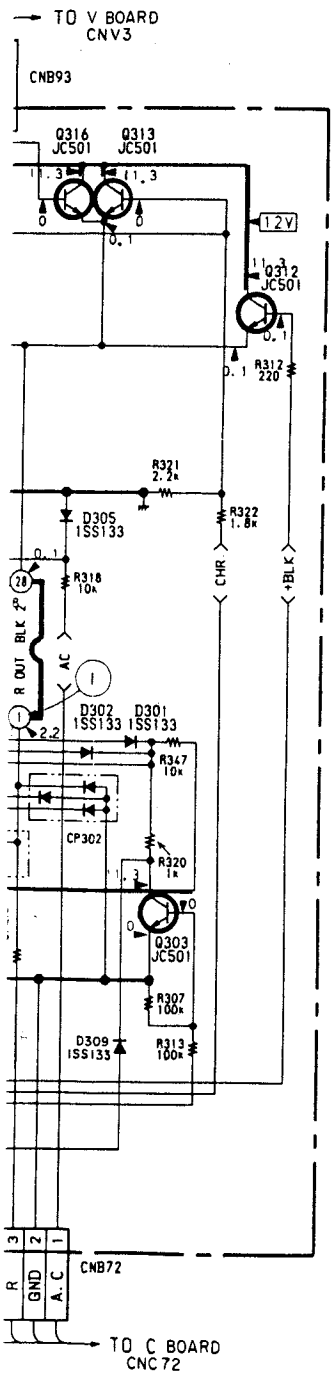


M

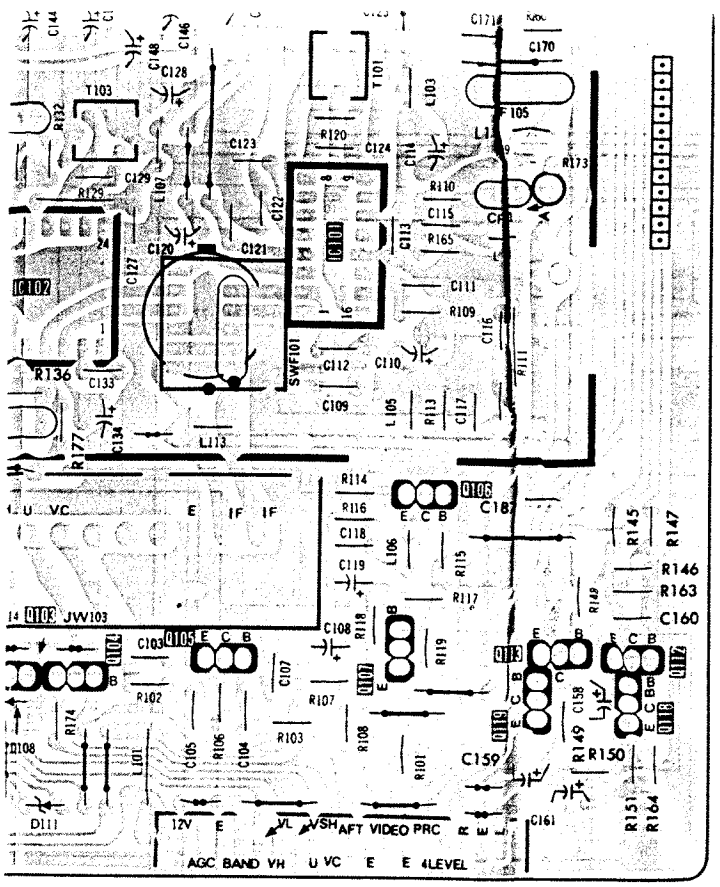
-p(H)	③ 6Vp-p(H)	④ 10.5Vp-p(H)	⑤ 0.4Vp-p(H)	⑥ 0.9Vp-p(H)
-p(H)	⑨ 0.4Vp-p(H)	⑩ 0.4Vp-p(H)	⑪ 1Vp-p(H)	⑫ 0.4Vp-p(H)

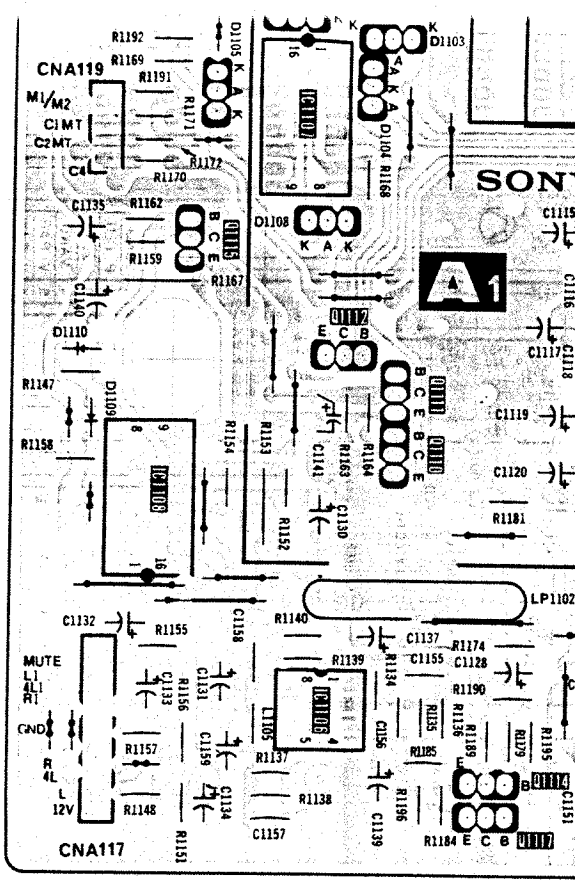



TU101
IC102
IC301
IC331
CNA16
CNB93
CNB72
CNB31
CNC72
AGC +B VL VH VSH U VC E IF IF
AGC BAND VH U VC E E 4LEVEL
12V E VL VSH AFT VIDEO PRC
SONY B
1-622-441-15

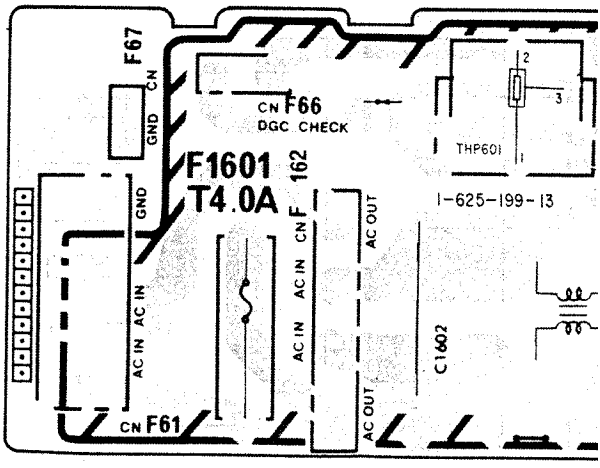

TO V BOARD
CNV3
Q316 JC501
Q313 JC501
Q312 JC501
12V
D305 1SS133
D302 1SS133
D301 1SS133
D309 1SS133
Q303 JC501
R321 2.2k
R322 1.8k
R312 220
R318 10k
R347 10k
R320 1k
R307 100k
R313 100k
CP302
R OUT
BLK
AJC
CHR
+BLK
R
GND
A.J.C
TO C BOARD
CNC72

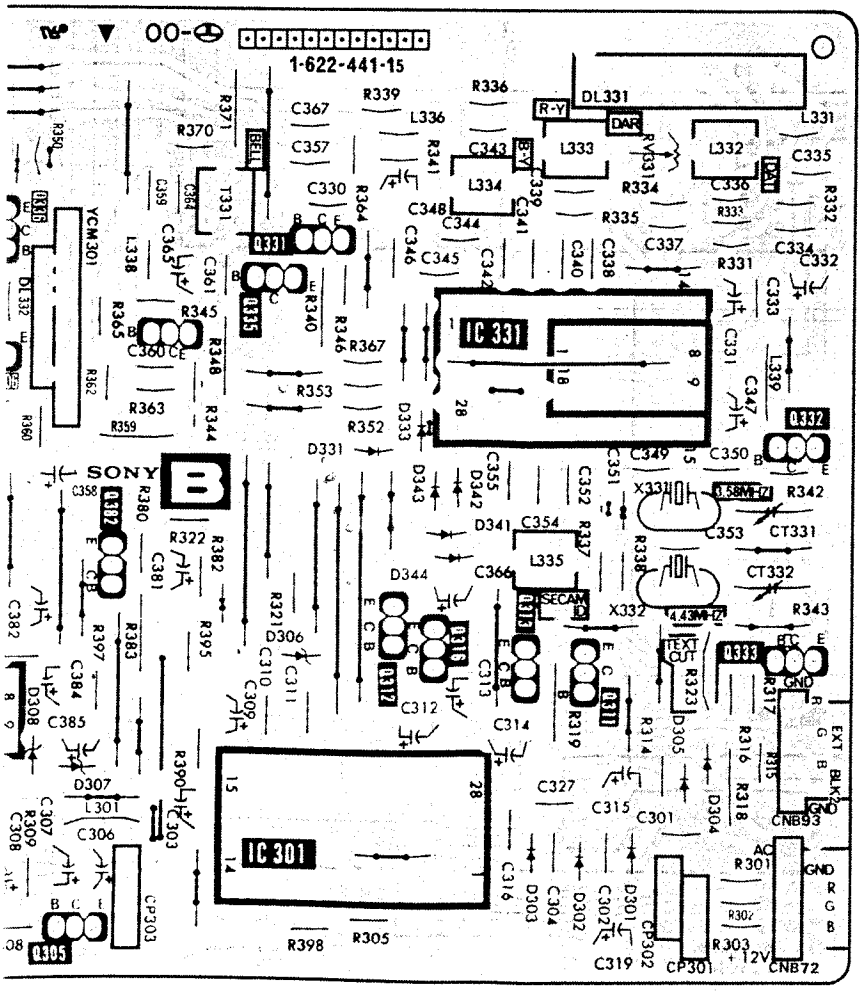
– B Board –



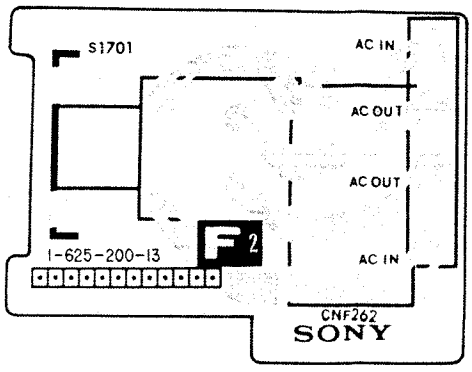


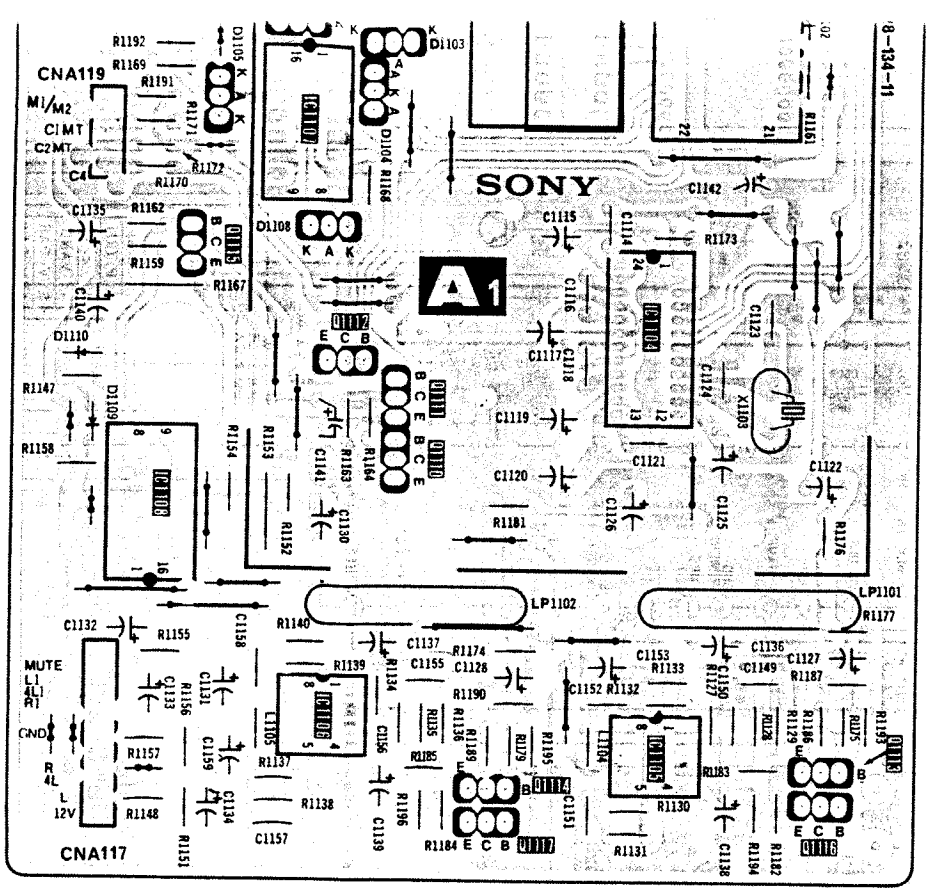
– F1 Board –





– F2 Board –

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CNA117
SONY
A1
LP1102
LP1101
MUTE
GND
12V
D1103
D1104
D1108
D1110
D1109
Q1112
Q1113
Q1114
Q1115
Q1116
Q1117
Q1118
IC1103
IC1104
IC1105
R1192
R1169
R1191
R1172
R1170
R1162
R1159
R1167
R1147
R1158
R1154
R1153
R1163
R1164
R1152
R1155
R1140
R1139
R1137
R1138
R1157
R1148
R1151
R1174
R1190
R1136
R1135
R1185
R1179
R1195
R1186
R1196
R1184
R1131
R1130
R1133
R1132
R1183
R1187
R1177
R1176
R1181
R1173
R1161
C1142
C1115
C1114
C1116
C1117
C1118
C1119
C1120
C1121
C1122
C1123
C1124
C1125
C1126
C1127
C1128
C1129
C1130
C1131
C1132
C1133
C1134
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C1181
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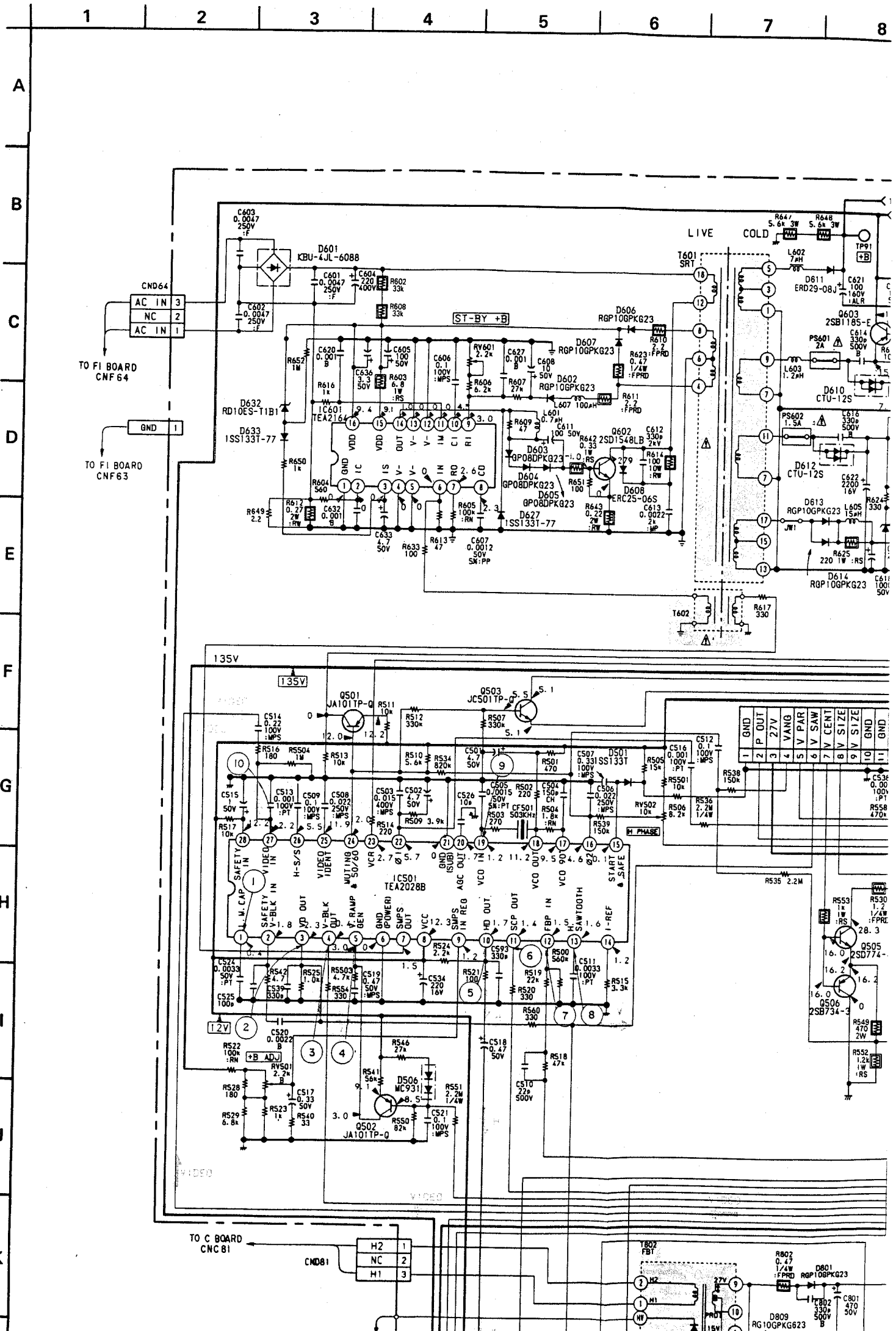
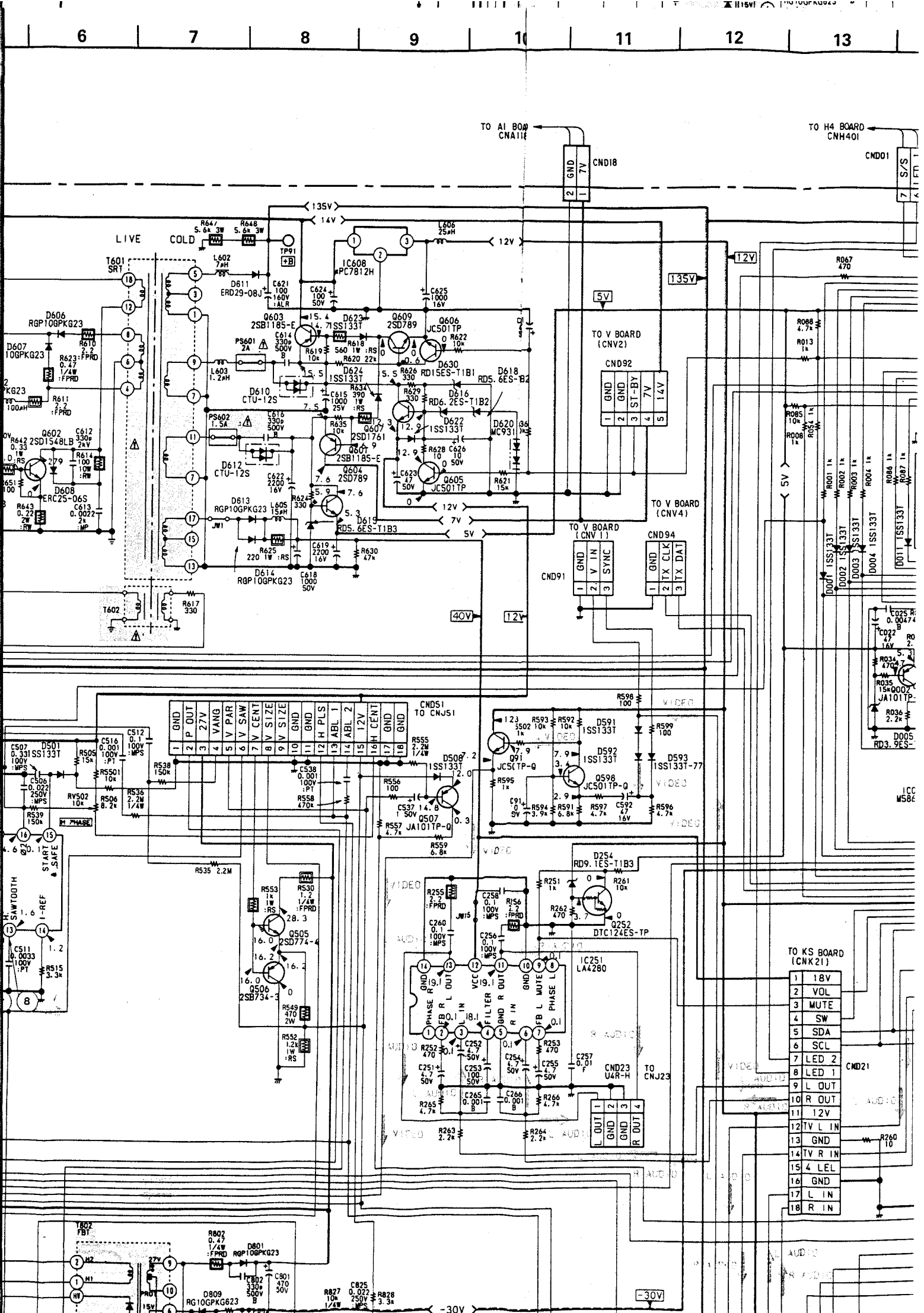
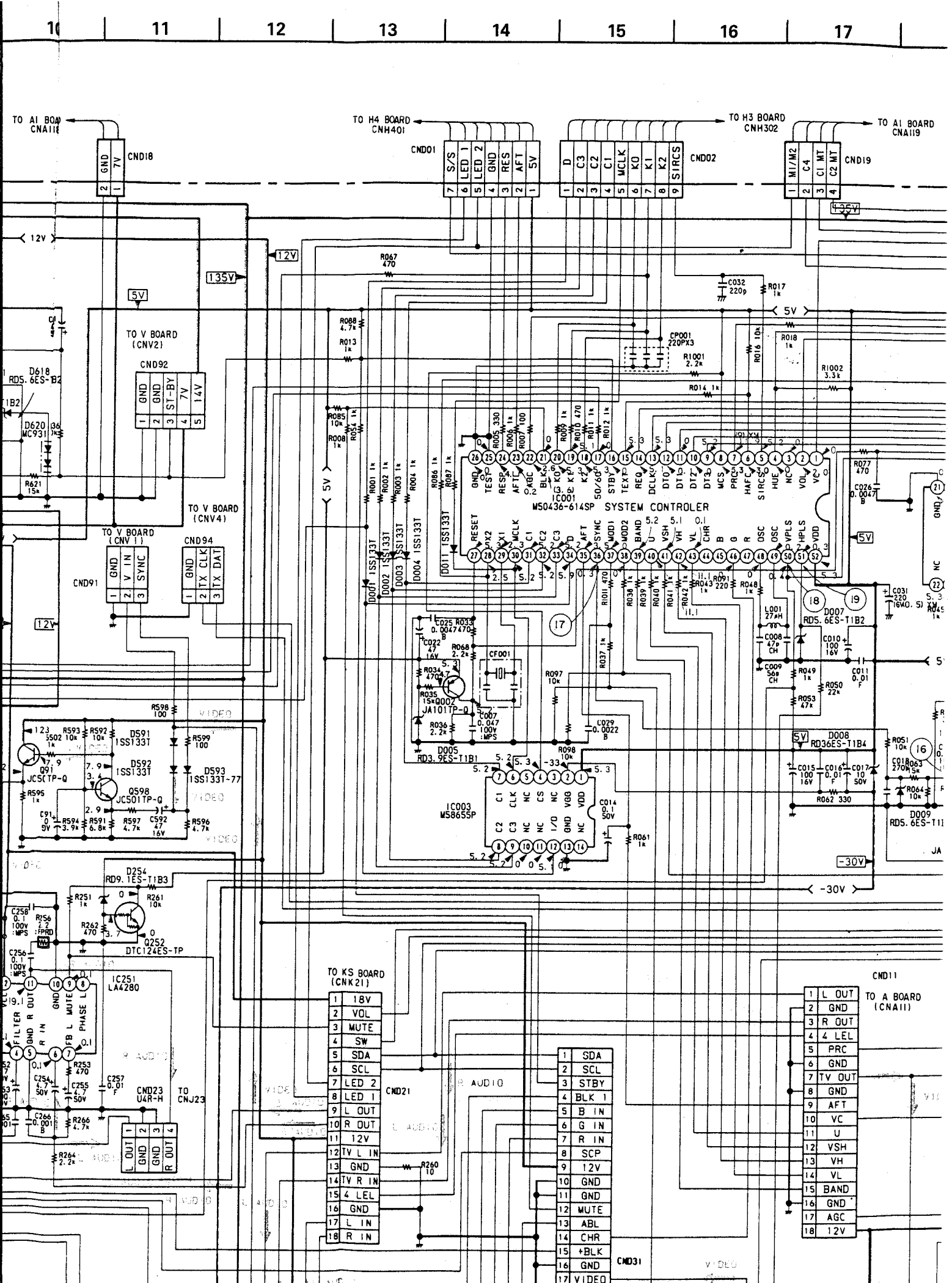
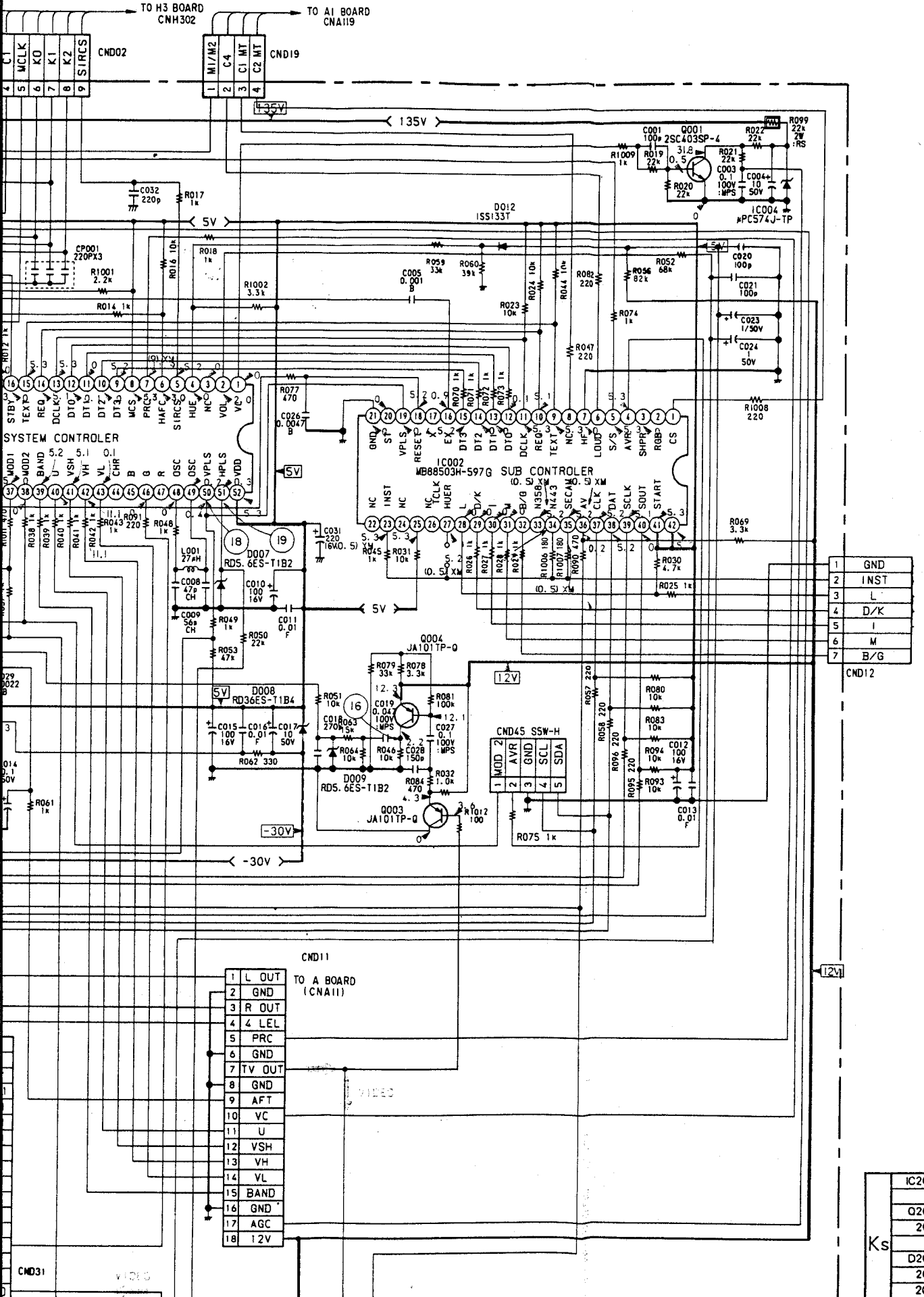
C1193
C1194

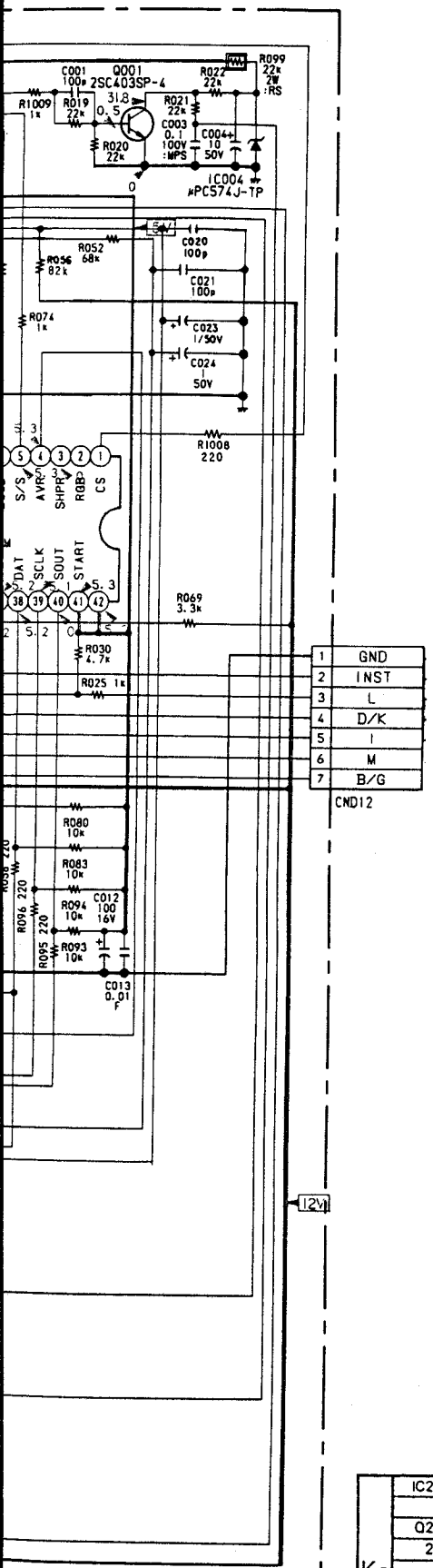

1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
CND64
AC IN 3
NC 2
AC IN 1
TO FI BOARD CNF64
GND 1
TO FI BOARD CNF63
D601 KBU-4JL-6088
ST-BY +B
LIVE
COLD
T601 SRT
IC601 TEA2164
D632 RD10ES-T1B1
D633 1SS133T-77
D602 RGP10GPKG23
D603 GP08DPKG23
D604 GP08DPKG23
D605 GP08DPKG23
D606 RGP10GPKG23
D607 RGP10GPKG23
D608 ERC25-06S
D610 CTU-12S
D611 ERD29-08J
D612 CTU-12S
D613 RGP10GPKG23
D614 RGP10GPKG23
D627 1SS133T-77
Q601 2SB1185-E
Q602 2SD1548LB
Q603 2SB1185-E
135V
Q501 JA101TP-Q
Q503 JC501TP-Q
IC501 TEA2028B
SAFETY IN
VIDEO IN
H-S/S
VIDEO IDENT
MUTING 50/60
VCR
GND (SUB)
AGC
VCO IN
VCO OUT
VCO 90
START & SAFE
L.W.CAP
SAFETY V-BLK IN
VD OUT
V-BLK OUT
V.RAMP
GEN
GND (POWER)
SMPS OUT
VCC
SMPS IN REG
HD OUT
SCP OUT
FBP IN
SAWTOOTH
I-REF
GND
P OUT
27V
VANG
V PAR
V SAW
V CENT
V SIZE
V SIZE
GND
GND
12V
+B ADJ
Q502 JA101TP-Q
D506 MC931
Q505 2SD774-
Q506 2SB734-3
T602 FBT
D801 RGP10GPKG23
D809 RG10GPKG623
TO C BOARD CNC81
CND81
H2
NC
H1


6
7
8
9
10
11
12
13
TO AI BOARD CNA11E
CND18
GND
7V
TO H4 BOARD CNH401
CND01
S/S
135V
14V
12V
5V
LIVE
COLD
T601 SRT
L602 7mH
TP91 +B
IC608 PC7812H
L606 25mH
D611 ERD29-08J
C621 100 160V :ALR
C624 100 50V
C625 1000 16V
R647 5.6k 3W
R648 5.6k 3W
D606 RGP10GPKG23
D607 10GPKG23
R610 2.2 :FPRD
R623 0.47 1/4W :FPRD
R611 2.2 :FPRD
L603 1.2mH
PS601 2A
C614 330p 500V B
R619 10k
R618 560 1W :RS
R620 22k
Q603 2SB1185-E
D623 1SS133T
Q609 2SD789
Q606 JC501TP
R622 10k
D630 RD15ES-T1B1
D624 1SS133T
R626 330
R629 330
R634 390 1W :RS
D618 RD5.6ES-B2
D616 RD6.2ES-T1B2
D610 CTU-12S
C615 1000 25V
PS602 1.5A
C616 330p 500V B
R635 10k
Q607 2SD1761
Q601 2SB1185-E
D622 1SS133T
D620 WC93
R628 10
C626 10 50V
C623 47 50V
Q605 JC501TP
R621 15k
Q602 2SD1548LB
C612 330p 2kV
R614 100 10W :RW
D608 ERC25-06S
C613 0.0022 2k :MP
R643 0.22 2W :RW
R642 0.33 1W :RS
D612 CTU-12S
C622 2200 16V
Q604 2SD789
R624 330
D613 RGP10GPKG23
L605 15mH
D619 RD5.6ES-T1B3
R625 220 1W :RS
C619 2200 16V
R630 47k
D614 RGP10GPKG23
C618 1000 50V
T602
R617 330
TO V BOARD (CNV2)
CND92
GND
GND
ST-BY
7V
14V
TO V BOARD (CNV4)
TO V BOARD (CNV1)
CND91
GND
V IN
SYNC
CND94
GND
TX CLK
TX DAT
40V
R067 470
R088 4.7k
R013 1k
R085 10k
R008 1k
R054 1k
R001 1k
R002 1k
R003 1k
R004 1k
R086 1k
R087 1k
D001 1SS133T
D002 1SS133T
D003 1SS133T
D004 1SS133T
D011 1SS133T
C025 0.00474 B
C022 47 16V
R034 47Ω
R035 15k
Q002 JA101TP
R036 2.2k
D005 RD3.9ES-
CND51 TO CNJ51
GND
P OUT
27V
VANG
V PAR
V SAW
V CENT
V SIZE
V SIZE
GND
GND
H PLS
ABL 1
ABL 2
12V
H CENT
GND
GND
R555 2.2M 1/4W
D501 1SS133T
C507 0.33 100V :MPS
C516 0.001 100V :PT
C512 0.1 100V :MPS
R505 15k
R5501 10k
R506 8.2k
C506 0.022 250V :MPS
RV502 10k
R536 2.2M 1/4W
R538 150k
R539 150k
H PHASE
C538 0.001 100V :PT
R558 470k
D508 1SS133T
R556 100
C537 14.8 50V
Q507 JA101TP-Q
R557 4.7k
R559 6.8k
R598 100
VIDEO
Q91 JC5(TP-Q
R595 1k
D591 1SS133T
D592 1SS133T
D593 1SS133T-77
Q598 JC501TP-Q
R599 100
R594 3.9k
R591 6.8k
R597 4.7k
C592 47 16V
R596 4.7k
C91 0 5V
R535 2.2M
H SAWTOOTH
I-REF
START & SAFE
C511 0.0033 100V :PT
R515 3.3k
R553 1k 1W :RS
R530 1.2 1/4W :FPRD
Q505 2SD774-4
Q506 2SB734-3
R549 470 2W
R552 1.2k 1W :RS
D254 RD9.1ES-T1B3
R251 1k
R261 10k
R262 470
Q252 DTC124ES-TP
R255 2.2 :FPRD
C258 0.1 100V :MPS
R256 2.2 :FPRD
C260 0.1 100V :MPS
C256 0.1 100V :MPS
IC251 LA4280
GND
R OUT
L OUT
VCC
FILTER
GND
R IN
L OUT
MUTE
PHASE L
PHASE R
FB R
FB L
R IN
L IN
R252 470
R253 470
C252 4.7 50V
C254 4.7 50V
C255 4.7 50V
C257 0.01 F
C251 4.7 50V
C253 100 50V
C265 0.001 B
C266 0.001 B
R265 4.7k
R266 4.7k
R263 2.2k
R264 2.2k
CND23 U4R-H
L OUT
GND
GND
R OUT
TO CNJ23
TO KS BOARD (CNK21)
CND21
18V
VOL
MUTE
SW
SDA
SCL
LED 2
LED 1
L OUT
R OUT
12V
TV L IN
GND
TV R IN
4 LEL
GND
L IN
R IN
R260 10
T802 FBT
R802 0.47 1/4W :FPRD
D801 RGP10GPKG23
C802 330p 500V B
C801 470 50V
D809 RG10GPKG623
R827 10k 1/4W
C825 0.022 250V :MPS
R828 3.3k
-30V
VIDEO
AUDIO
R AUDIO
L AUDIO


10
11
12
13
14
15
16
17
TO AI BOARD CNA118
CND18
GND
7V
TO H4 BOARD CNH401
CND01
S/S
LED 1
LED 2
GND
RES
AFT
5V
CND02
D
C3
C2
C1
MCLK
K0
K1
K2
SIRCS
TO H3 BOARD CNH302
CND19
MI/M2
C4
C1 MT
C2 MT
TO AI BOARD CNA119
135V
12V
5V
TO V BOARD (CNV2)
CND92
GND
GND
ST-BY
7V
14V
TO V BOARD (CNV4)
TO V BOARD (CNV11)
CND91
GND
V IN
SYNC
CND94
GND
TX CLK
TX DAT
IC001
M50436-614SP SYSTEM CONTROLER
RESET
XX2
XX1
MCLK
C1
C2
C3
AFT
SYNC
MOD1
MOD2
BAND
U
VSH
VH
VL
CHR
B
G
R
OSC
OSC
VPLS
HPLS
VDD
IC003
M58655P
C1
CLK
NC
CS
NC
VGG
VDD
C2
C3
NC
NC
I/O
GND
NC
D618
RD5.6ES-T1B2
D620
MC931
R621
15k
D254
RD9.1ES-T1B3
Q252
DTC124ES-TP
IC251
LA4280
FILTER
GND
R OUT
R IN
FB L
MUTE
PHASE L
CND23
U4R-H
TO CNJ23
OUT
GND
GND
R OUT
TO KS BOARD (CNK21)
CND21
18V
VOL
MUTE
SW
SDA
SCL
LED 2
LED 1
L OUT
R OUT
12V
TV L IN
GND
TV R IN
4 LEL
GND
L IN
R IN
SDA
SCL
STBY
BLK 1
B IN
G IN
R IN
SCP
12V
GND
GND
MUTE
ABL
CHR
+BLK
GND
VIDEO
CND31
CND11
TO A BOARD (CNA11)
L OUT
GND
R OUT
4 LEL
PRC
GND
TV OUT
GND
AFT
VC
U
VSH
VH
VL
BAND
GND
AGC
12V
D007
RD5.6ES-T1B2
D008
RD36ES-T1B4
D009
RD5.6ES-T1
D005
RD3.9ES-T1B1
Q001
JA101TP-Q
Q002
JA101TP-Q
Q598
JC501TP-Q
Q91
JC5(TP-Q
D591
1SS133T
D592
1SS133T
D593
1SS133T-77
CF001
CP001
220PX3
-30V
VIDEO
R AUDIO
L AUDIO

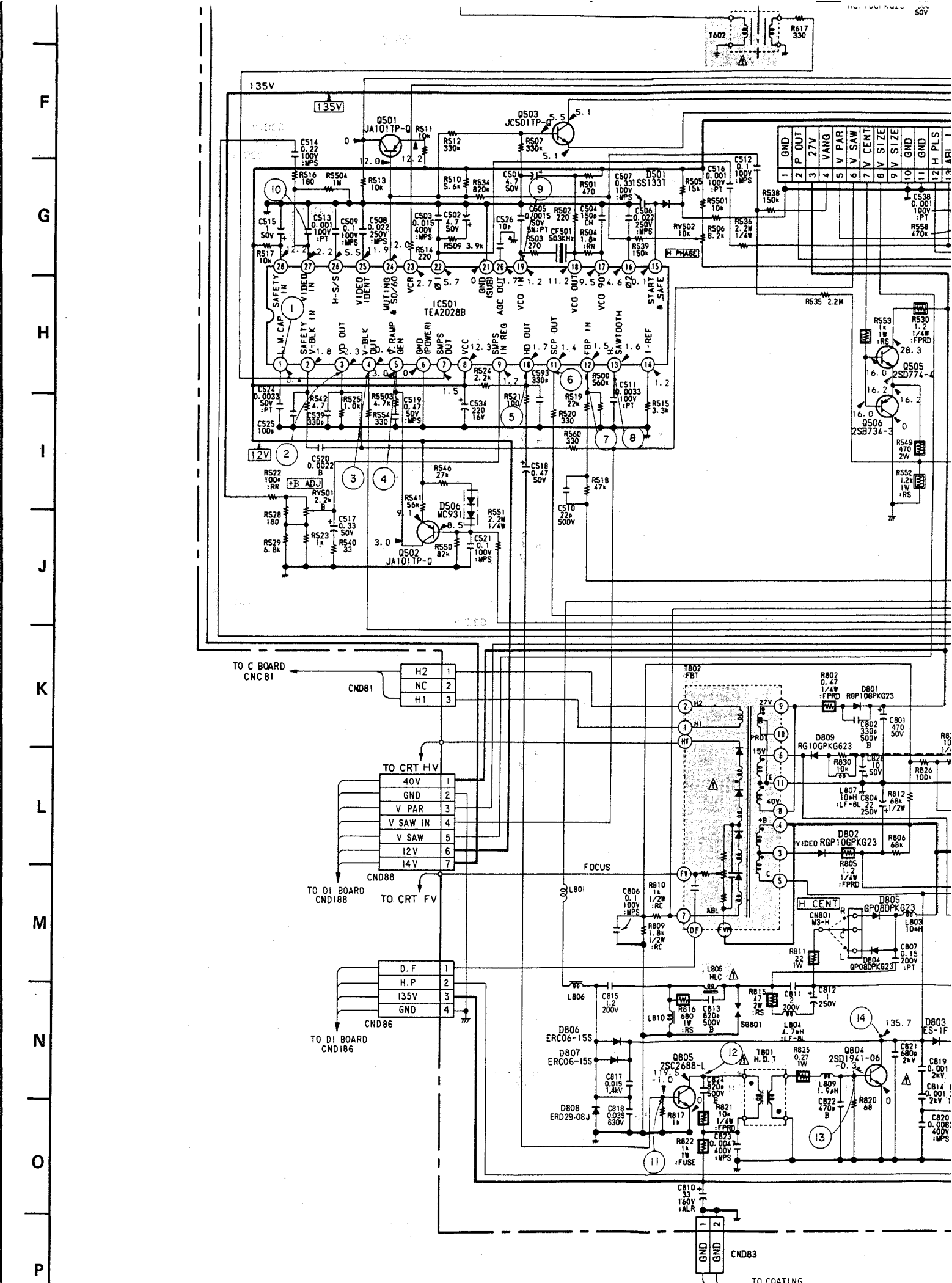


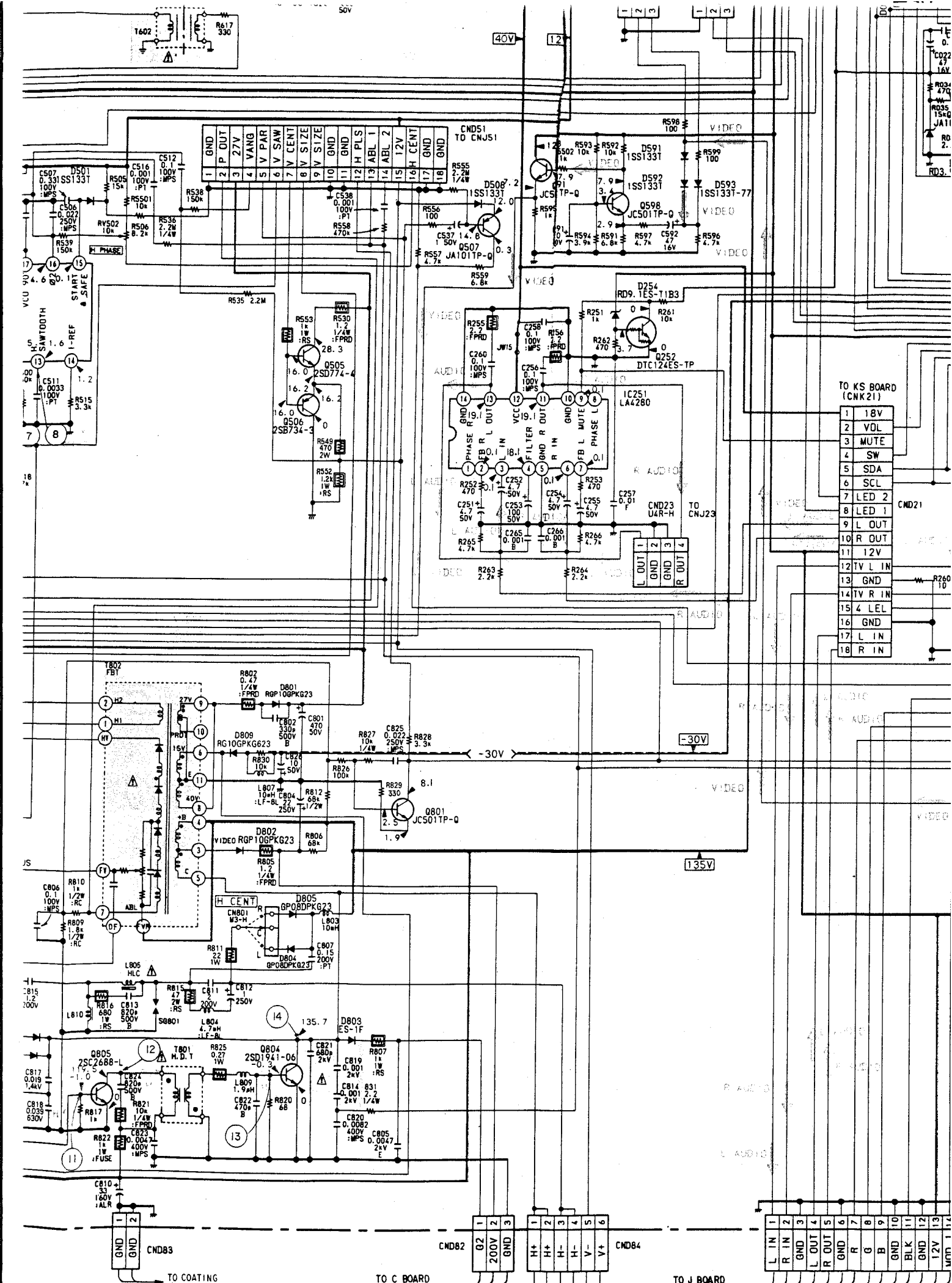
Ks	IC201	TDA6200	AF
	Q201	JC501	R
	202	JC501	L
	D201	RD9.1ESB3	PR
	202	RD9.1ESB3	PR
	205	RD7.5ESB3	PR



Ks	IC201	TDA6200	AF INTERFACE
	Q201	JC501	R BUFF
	202	JC501	L BUFF
	D201	RD9.1ESB3	PROTECT-1
	202	RD9.1ESB3	PROTECT-2
	205	RD7.5ESB3	PROTECT-5

	IC 001	M50436-614SP	TUNING CTL
	002	M888503H-597G	SYSTEM CTL
	003	M58655P	MEMORY
	004	μ PC574J	REG
	251	LA4280	AF OUT
	401	CX20061	VIDEO SW
	501	TEA2028B	JUNGLE
	601	TEA2164	POWER CTL
	Q 001	JC501	VC AMP
	002	JA101	RESET
	003	JA101	VIDEO BUFF
	004	JA101	SYNC SEP
	252	DTC124ES	MUTE
	501	JA101	50/60 SW
	502	JA101	V SAW
	503	JC501	SYNC DET
	505	2SD774-4	V CENT-1
	506	2SB734-.:	V CENT-2
	507	JA101	VLK SW
	591	JC501	SYNC SW
	598	JC501	SYNC AMP
	601	2SB1185	ST BY SW-1
	602	2SD1548	REG OUT
	603	2SB1185	ST BY SW-2
	604	2SD789-04	+5V REG
	605	JC501	ST BY SW-3
	606	JC501	ST BY SW-4
	607	2SD1761-E	+12V REG-1
	608	2SD1761-E	+12V REG-2
	609	2SD789-04	ST BY SW-5
	801	JC501	ABL AMP
	804	2SD1941-06	H OUT
	805	2SC2688-L	H DRIVE
	D 001	1SS133	KEY SCAN-1
	002	1SS133	KEY SCAN-2
	003	1SS133	KEY SCAN-3
	004	1SS133	KEY SCAN-4
	005	RD3.9ES-B1	PROTECT-1
	007	RD5.6ES-B2	PROTECT-2
	008	RD36ES-B4	39V ZENER
	009	RD5.6ES-B2	PROTECT-3
	011	1SS133	KEY SCAN-5
D	254	RD9.1ES-B3	10V ZENER
	501	1SS133	SOFT START
	506	MC931	PROTECT-4
	508	1SS133	BLK SW
	591	1SS133	SYNC SW-1
	592	1SS133	SYNC SW-2
	593	1SS133	SYNC SW-3
	601	KBU4JL-6088	AC RECT
	602	RGP10GPKG23	PROTECT-5
	603	GP08DPKG23	REG DRIVE-1
	604	GP08DPKG23	REG DRIVE-2
	605	GP08DPKG23	REG DRIVE-3
	606	RGP10GPKG23	REF RECT-1
	607	RGP10GPKG23	REF RECT-2
	608	ERC25-06S	PULSE CLIPPER
	610	CTU-12S	+14V RECT
	611	ERD28-06S	+135V RECT
	612	CTU-12S	+7V RECT
	613	RGP10GPKG23	AF RECT
	614	RGP10GPKG23	AF RECT
	615	RD5.6ES-B1	REG-4
	616	RD6.2ES-B2	REG-1
	617	RD6.2ES-B2	REG-2
	618	RD5.6ES-B2	REG-3
	619	RD5.6ES-B2	REG-3
	620	MC931	PROTECT-6
	621	MC931	PROTECT-7
	622	1SS133	PROTECT-8
	623	1SS133	STBY SW-1
	624	1SS133	STBY SW-2
	627	1SS133	PROTECT-9
	630	RD15ES-B1	REG
	632	RD10ES-B1	PROTECT
	633	1SS133	PROTECT
	801	RGP10GPKG23	27V RECT
	802	RGP10GPKG23	200V RECT
	803	RGP01-17PKG23	G2 RECT
	804	GP08DPKG23	H CENT-1
	805	GP08DPKG23	H CENT-2
	806	ERC06-15S	H DANPER-1
	807	ERC06-15S	H DANPER-2
	808	ERD29-08J	PIN DANPER


135V
IC501
TEA2028B
Q501
JA101TP-Q
Q502
JA101TP-Q
Q503
JC501TP-Q
D501
SS133T
D506
MC931
Q505
2SD774-4
Q506
2SB734-3
T602
T801
H.D.T
T802
FBT
Q804
2SD1941-06
Q805
2SC2688-L
D801
RGP10GPKG23
D802
RGP10GPKG23
D805
GP08DPKG23
D806
ERC06-15S
D807
ERC06-15S
D808
ERD29-08J
D809
RG10GPKG623
H PHASE
H CENT
FOCUS
TO C BOARD
CNC81
CND81
H2
NC
H1
TO CRT HV
40V
GND
V PAR
V SAW IN
V SAW
12V
14V
CND88
TO DI BOARD
CND188
TO CRT FV
D.F
H.P
135V
GND
CND86
TO DI BOARD
CND186
GND
P OUT
27V
VANG
V PAR
V SAW
V CENT
V SIZE
V SIZE
GND
GND
H PLS
CND83
TO COATING


CND51
TO CNJ51
GND
P OUT
27V
VANG
V PAR
V SAW
V CENT
V SIZE
V SIZE
GND
GND
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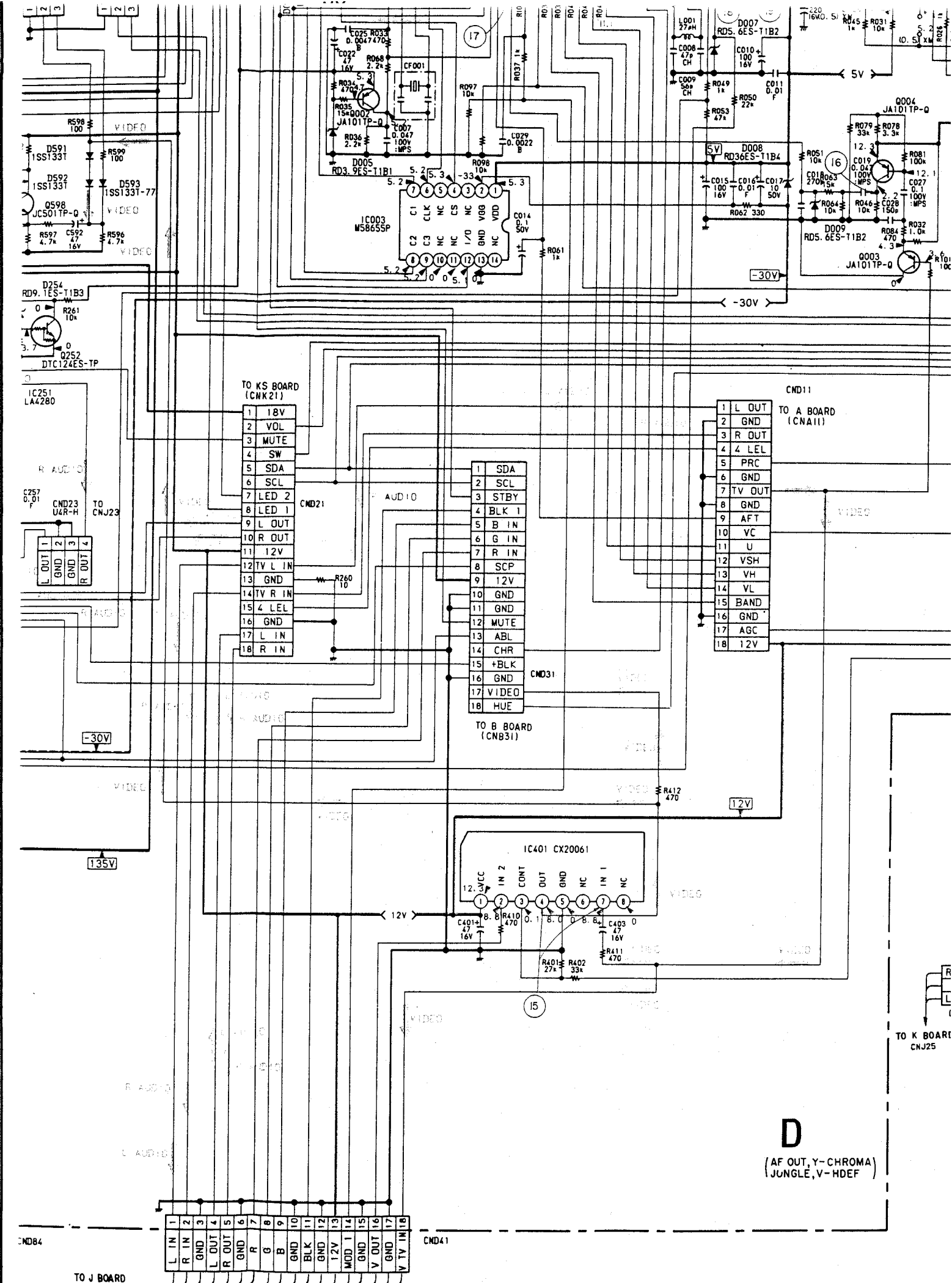
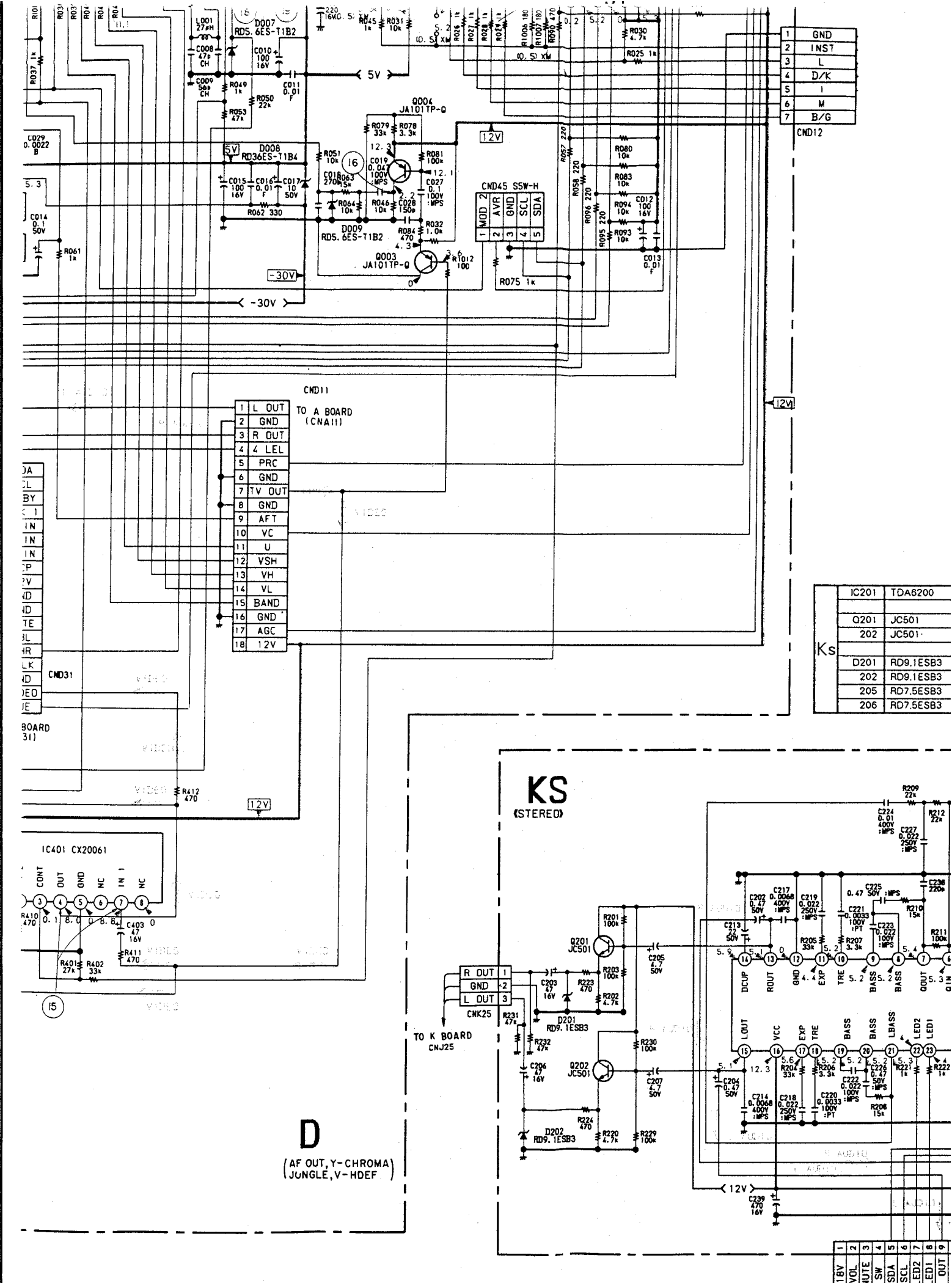
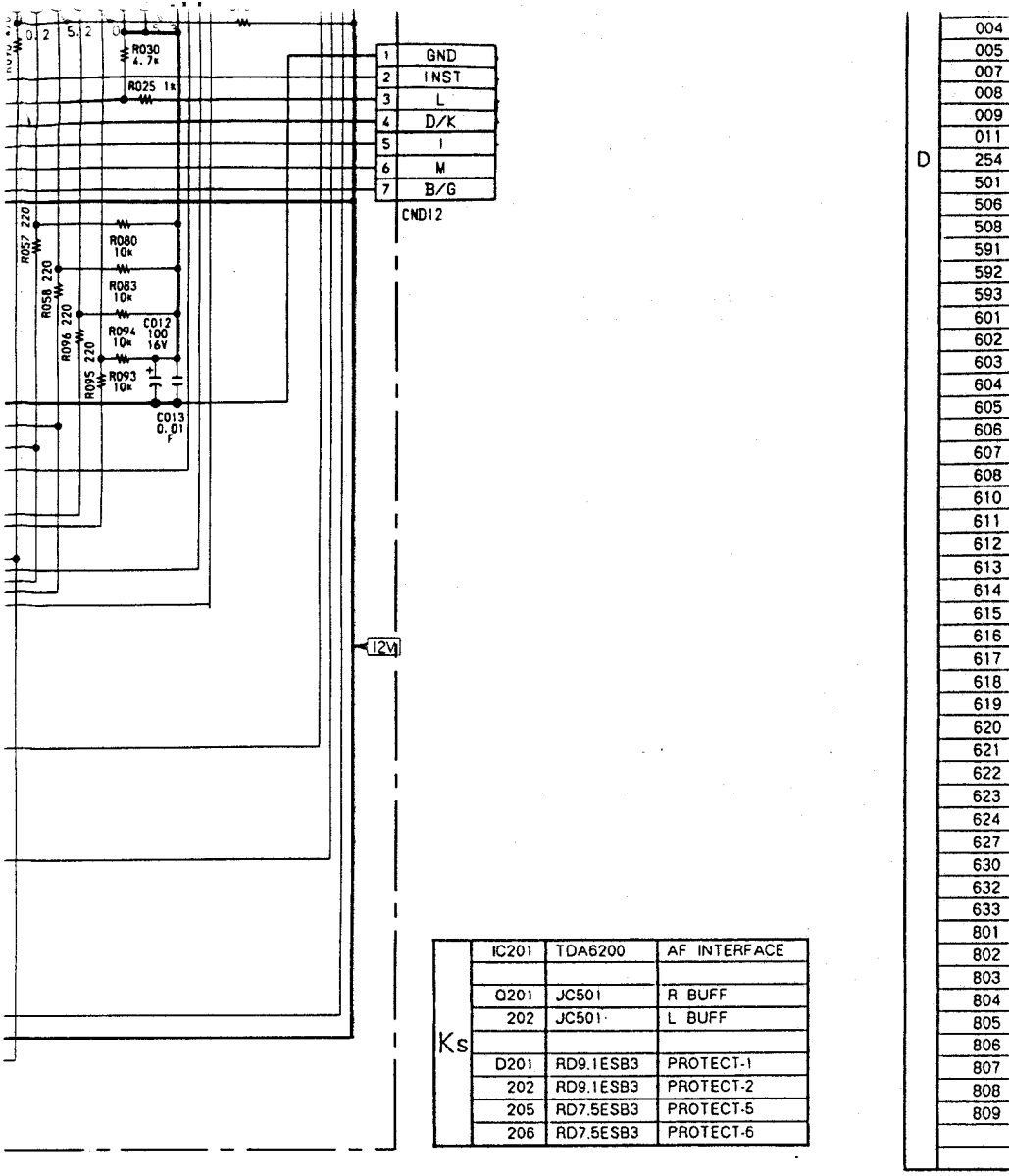
ABL 1
ABL 2
12V
H CENT
GND
GND
D501 SS133T
D506 1SS133T
D507 1SS133T
D508 1SS133T
D591 1SS133T
D592 1SS133T
D593 1SS133T-77
Q507 JA101TP-Q
Q598 JC501TP-Q
Q505 2SD774-4
Q506 2SB734-3
D254 RD9.1ES-T1B3
Q252 DTC124ES-TP
IC251 LA4280
TO KS BOARD (CNK21)
1 18V
2 VOL
3 MUTE
4 SW
5 SDA
6 SCL
7 LED 2
8 LED 1
9 L OUT
10 R OUT
11 12V
12 TV L IN
13 GND
14 TV R IN
15 4 LEL
16 GND
17 L IN
18 R IN
CND21
CND23 U4R-H
TO CNJ23
L OUT
GND
GND
R OUT
T602
T802 FBT
D801 RGP10GPKG23
D802 RGP10GPKG23
D809 RG10GPKG623
Q801 JC501TP-Q
D805 GP08DPKG23
D804 GP08DPKG23
D803 ES-1F
Q805 2SC2688-L
Q804 2SD1941-06
T801 H.D.T
S8801
-30V
135V
40V
12
CND83
TO COATING
CND82
G2
200V
GND
CND84
TO C BOARD
TO J BOARD
L IN
R IN
GND
L OUT
R OUT
GND
R
G
B
GND
BLK
GND
12V

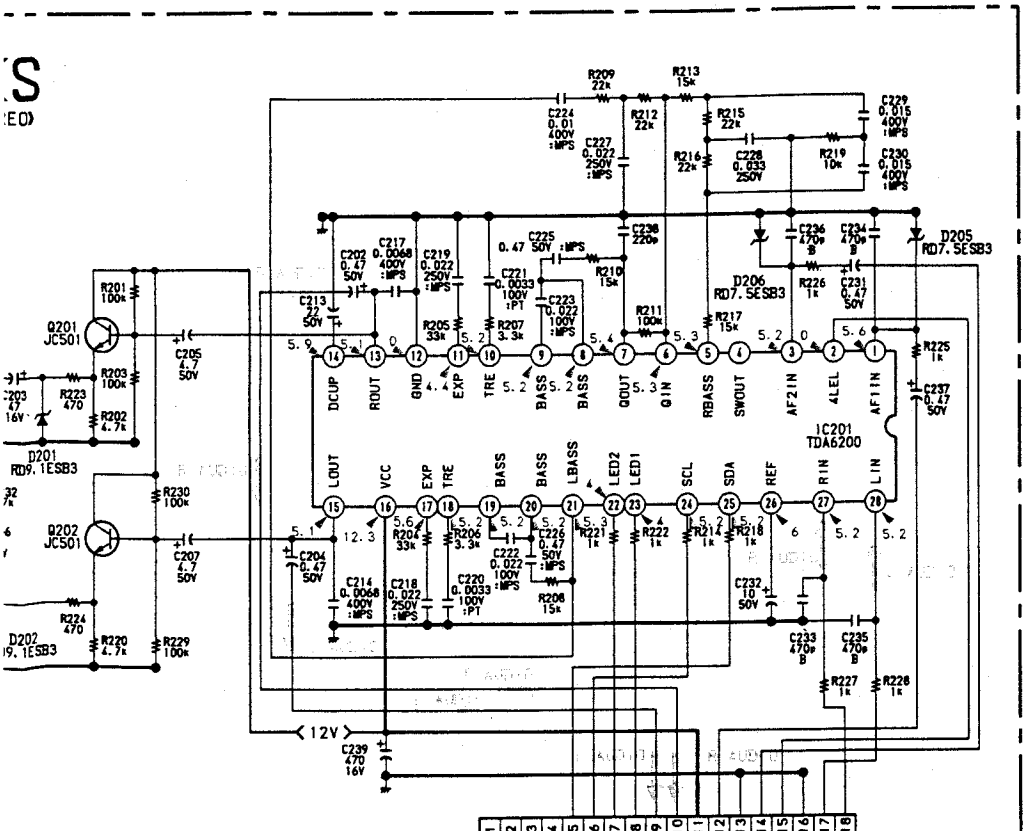

TO KS BOARD (CNK21)
18V
VOL
MUTE
SW
SDA
SCL
LED 2
LED 1
L OUT
R OUT
12V
TV L IN
GND
TV R IN
4 LEL
GND
L IN
R IN
CND21
SDA
SCL
STBY
BLK 1
B IN
G IN
R IN
SCP
12V
GND
GND
MUTE
ABL
CHR
+BLK
GND
VIDEO
HUE
CND31
TO B BOARD (CNB31)
CND11
L OUT
GND
R OUT
4 LEL
PRC
GND
TV OUT
GND
AFT
VC
U
VSH
VH
VL
BAND
GND
AGC
12V
TO A BOARD (CNA11)
IC003 M58655P
IC401 CX20061
IC251 LA4280
Q252 DTC124ES-TP
Q003 JA101TP-Q
Q004 JA101TP-Q
Q007 JA101TP-Q
Q598 JC501TP-Q
D005 RD3.9ES-T1B1
D007 RD5.6ES-T1B2
D008 RD36ES-T1B4
D009 RD5.6ES-T1B2
D254 RD9.1ES-T1B3
D591 1SS133T
D592 1SS133T
D593 1SS133T-77
CND23 U4R-H
TO CNJ23
L OUT
GND
GND
R OUT
5V
-30V
12V
135V
VIDEO
AUDIO
R AUDIO
L AUDIO
CND84
TO J BOARD
L IN
R IN
GND
L OUT
R OUT
GND
R
G
B
GND
BLK
GND
12V
MOD 1
GND
V OUT
GND
V TV IN
CND41
TO K BOARD CNJ25
D
(AF OUT, Y-CHROMA JUNGLE, V-HDEF)


CND12
1 GND
2 INST
3 L
4 D/K
5 I
6 M
7 B/G
CND45 SSW-H
MOD
AVR
GND
SCL
SDA
CND11
TO A BOARD (CNA11)
1 L OUT
2 GND
3 R OUT
4 4 LEL
5 PRC
6 GND
7 TV OUT
8 GND
9 AFT
10 VC
11 U
12 VSH
13 VH
14 VL
15 BAND
16 GND
17 AGC
18 12V
CND31
IC401 CX20061
CONT
OUT
GND
NC
IN 1
NC
5V
12V
-30V
Ks
IC201 TDA6200
Q201 JC501
202 JC501
D201 RD9.1ESB3
202 RD9.1ESB3
205 RD7.5ESB3
206 RD7.5ESB3
KS
(STEREO)
R OUT
GND
L OUT
CNK25
TO K BOARD
CNJ25
Q201 JC501
Q202 JC501
D201 RD9.1ESB3
D202 RD9.1ESB3
DCUP
ROUT
GND
EXP
TRE
BASS
BASS
QOUT
LOUT
VCC
EXP
TRE
BASS
BASS
LBASS
LED2
LED1
D
(AF OUT, Y-CHROMA JUNGLE, V-HDEF)
1 BV
2 VOL
3 MUTE
4 SW
5 SDA
6 SCL
7 LED2
8 LED1
9 OUT



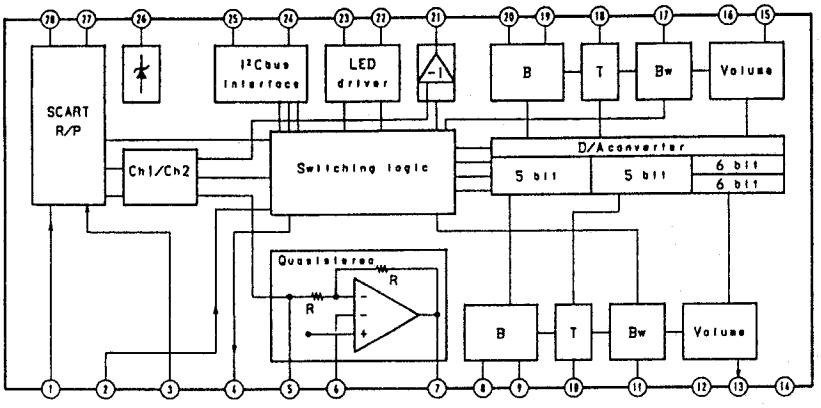
Ks	IC201	TDA6200	AF INTERFACE
	Q201	JC501	R BUFF
	202	JC501	L BUFF
	D201	RD9.1ESB3	PROTECT-1
	202	RD9.1ESB3	PROTECT-2
	205	RD7.5ESB3	PROTECT-5
	206	RD7.5ESB3	PROTECT-6

D	004	1SS133	KEY SCAN-4
	005	RD3.9ES-B1	PROTECT-1
	007	RD5.6ES-B2	PROTECT-2
	008	RD36ES-B4	39V ZENER
	009	RD5.6ES-B2	PROTECT-3
	011	1SS133	KEY SCAN-5
	254	RD9.1ES-B3	10V ZENER
	501	1SS133	SOFT START
	506	MC931	PROTECT-4
	508	1SS133	BLK SW
	591	1SS133	SYNC SW-1
	592	1SS133	SYNC SW-2
	593	1SS133	SYNC SW-3
	601	KBU4JL-6088	AC RECT
	602	RGP10GPKG23	PROTECT-5
	603	GP08DPKG23	REG DRIVE-1
	604	GP08DPKG23	REG DRIVE-2
	605	GP08DPKG23	REG DRIVE-3
	606	RGP10GPKG23	REF RECT-1
	607	RGP10GPKG23	REF RECT-2
	608	ERC25-06S	PULSE CLIPPER
	610	CTU-12S	+14V RECT
	611	ERD28-06S	+135V RECT
	612	CTU-12S	+7V RECT
	613	RGP10GPKG23	AF RECT
	614	RGP10GPKG23	AF RECT
	615	RD5.6ES-B1	REG-4
	616	RD6.2ES-B2	REG-1
	617	RD6.2ES-B2	REG-2
	618	RD5.6ES-B2	REG-3
	619	RD5.6ES-B2	REG-3
	620	MC931	PROTECT-6
	621	MC931	PROTECT-7
	622	1SS133	PROTECT-8
	623	1SS133	STBY SW-1
	624	1SS133	STBY SW-2
	627	1SS133	PROTECT-9
	630	RD15ES-B1	REG
	632	RD10ES-B1	PROTECT
	633	1SS133	PROTECT
	801	RGP10GPKG23	27V RECT
	802	RGP10GPKG23	200V RECT
	803	RGP01-17PKG23	G2 RECT
	804	GP08DPKG23	H CENT-1
	805	GP08DPKG23	H CENT-2
	806	ERC06-15S	H DANPER-1
	807	ERC06-15S	H DANPER-2
	808	ERD29-08J	PIN DANPER
	809	RGP10GPKG23	-30V RECT

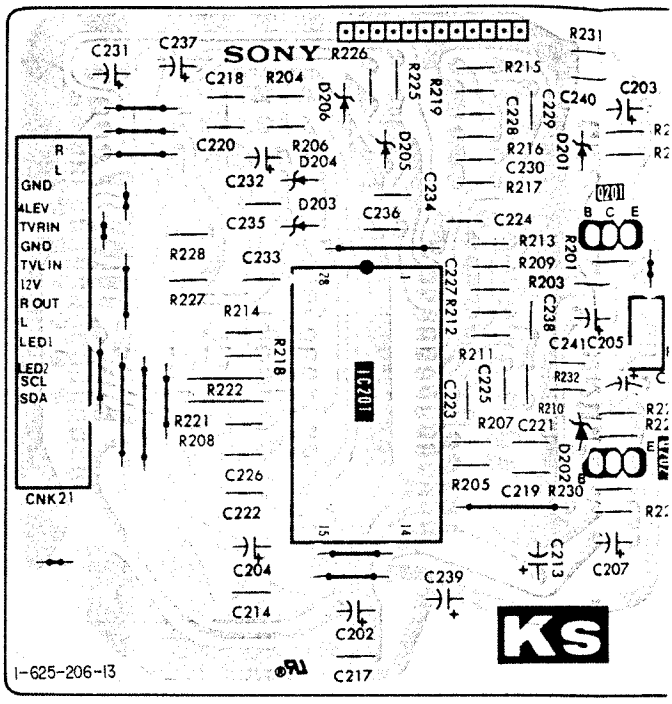


Ks [STEREO]

KS BOARD IC201 TDA6200



— KS Board —

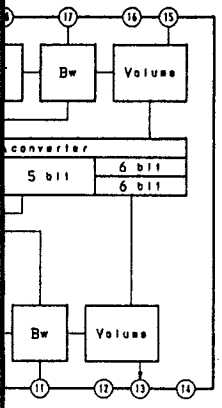


• D BOARD WAVEFORM

① 1.2Vp-p(H)	⑤ 4Vp-p(H)	⑨ 0.1Vp-p(503kHz)	⑬ 12Vp-p(H)	⑰ 5.6Vp-p(H)
② 2.4Vp-p(V)	⑥ 11Vp-p(H)	⑩ 1.8Vp-p(H)	⑭ 1200Vp-p(H)	⑱ 5.6Vp-p(V)
③ 5.3Vp-p(V)	⑦ 14Vp-p(H)	⑪ 3.2Vp-p(H)	⑮ 1Vp-p(H)	⑲ 6.4Vp-p(H)
④ 2.4Vp-p(V)	⑧ 3.6Vp-p(H)	⑫ 230Vp-p(H)	⑯ 11Vp-p(H)	

Ks [STEREO]

D [AF OUT, Y-CHROMA, JUNGLE, V-H DEF]



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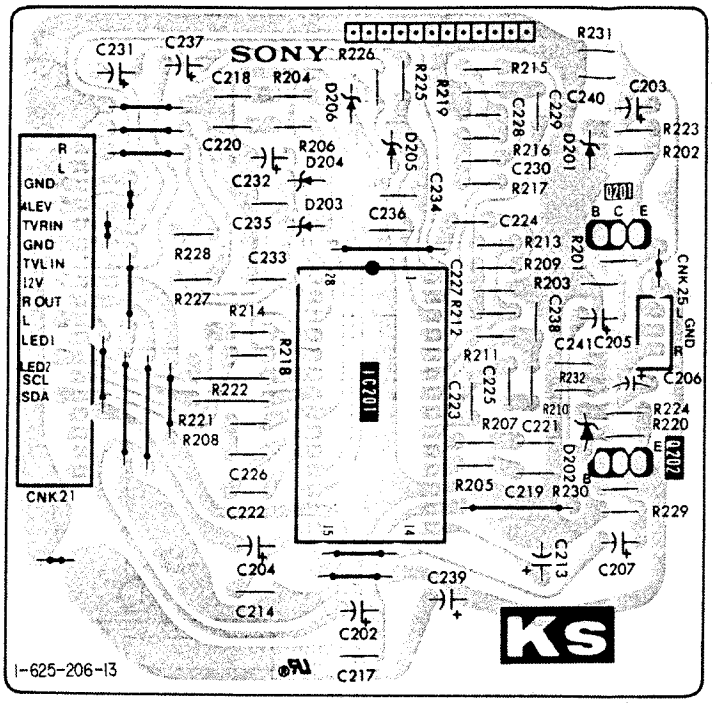

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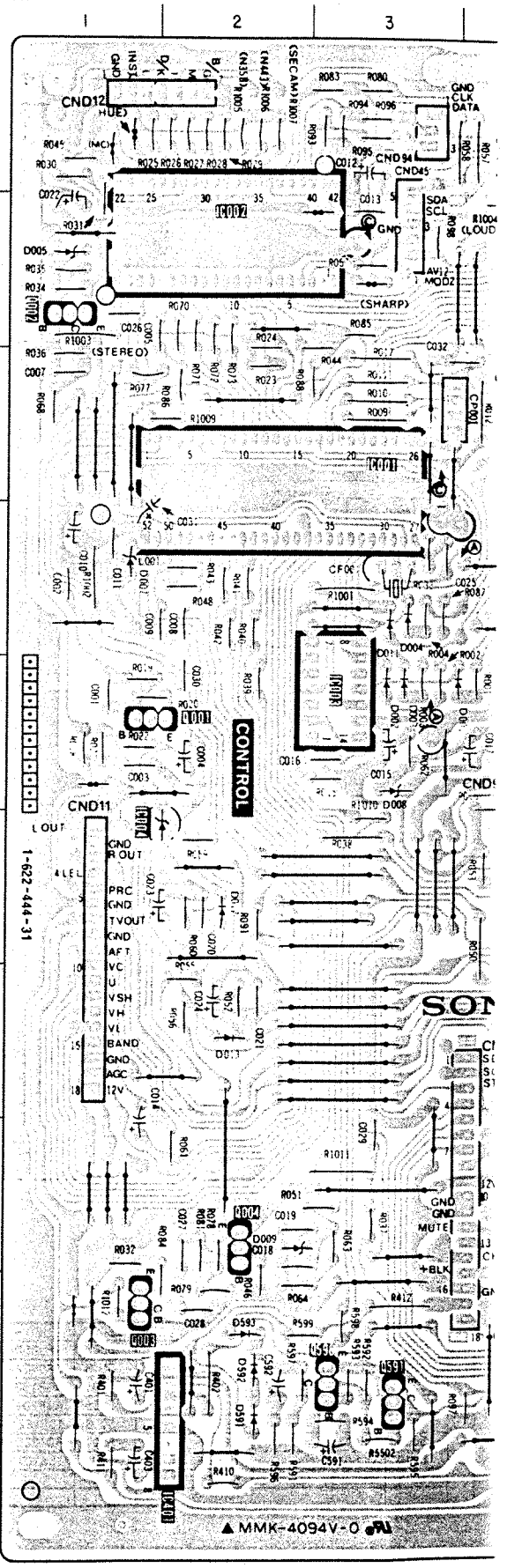
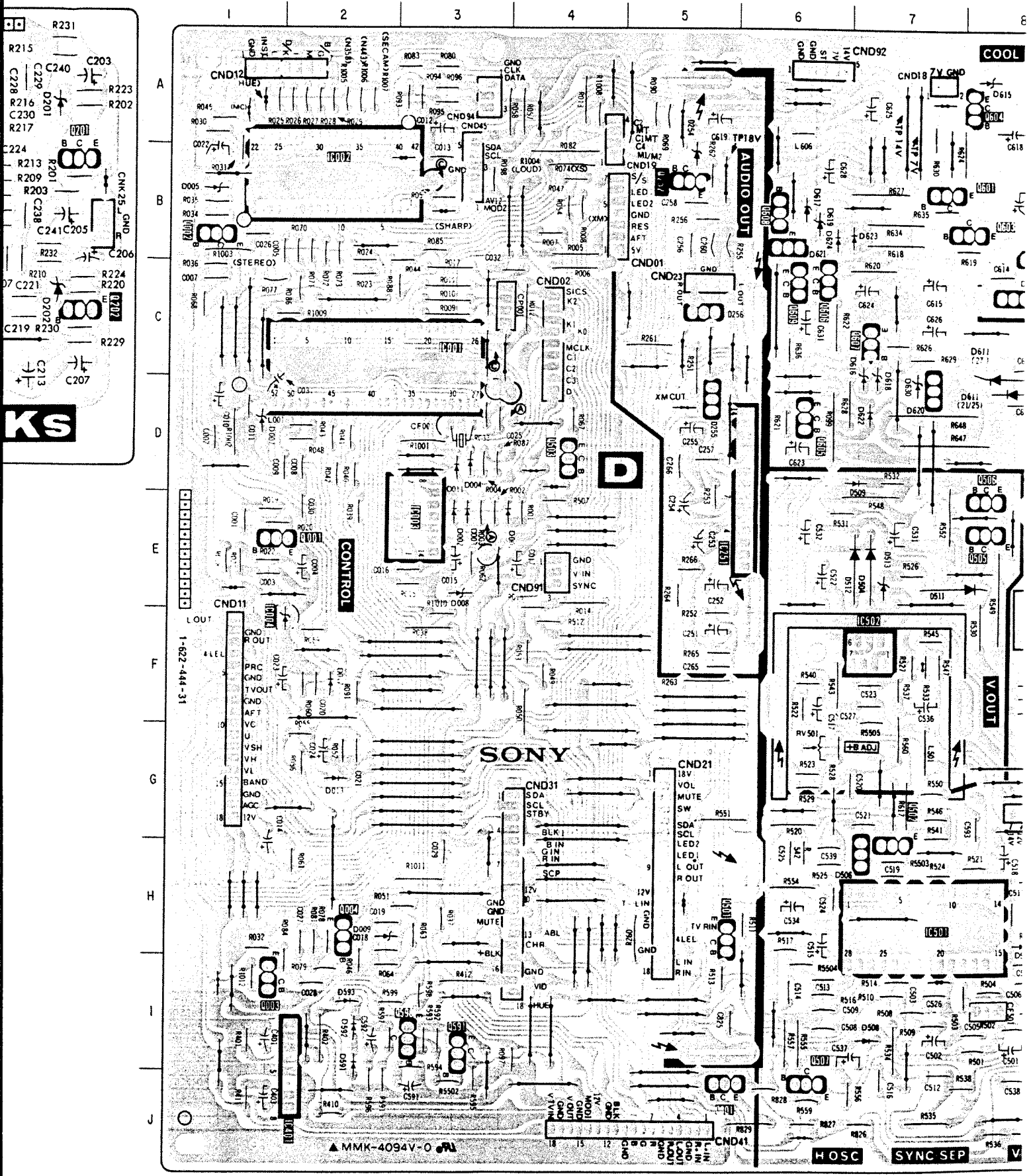
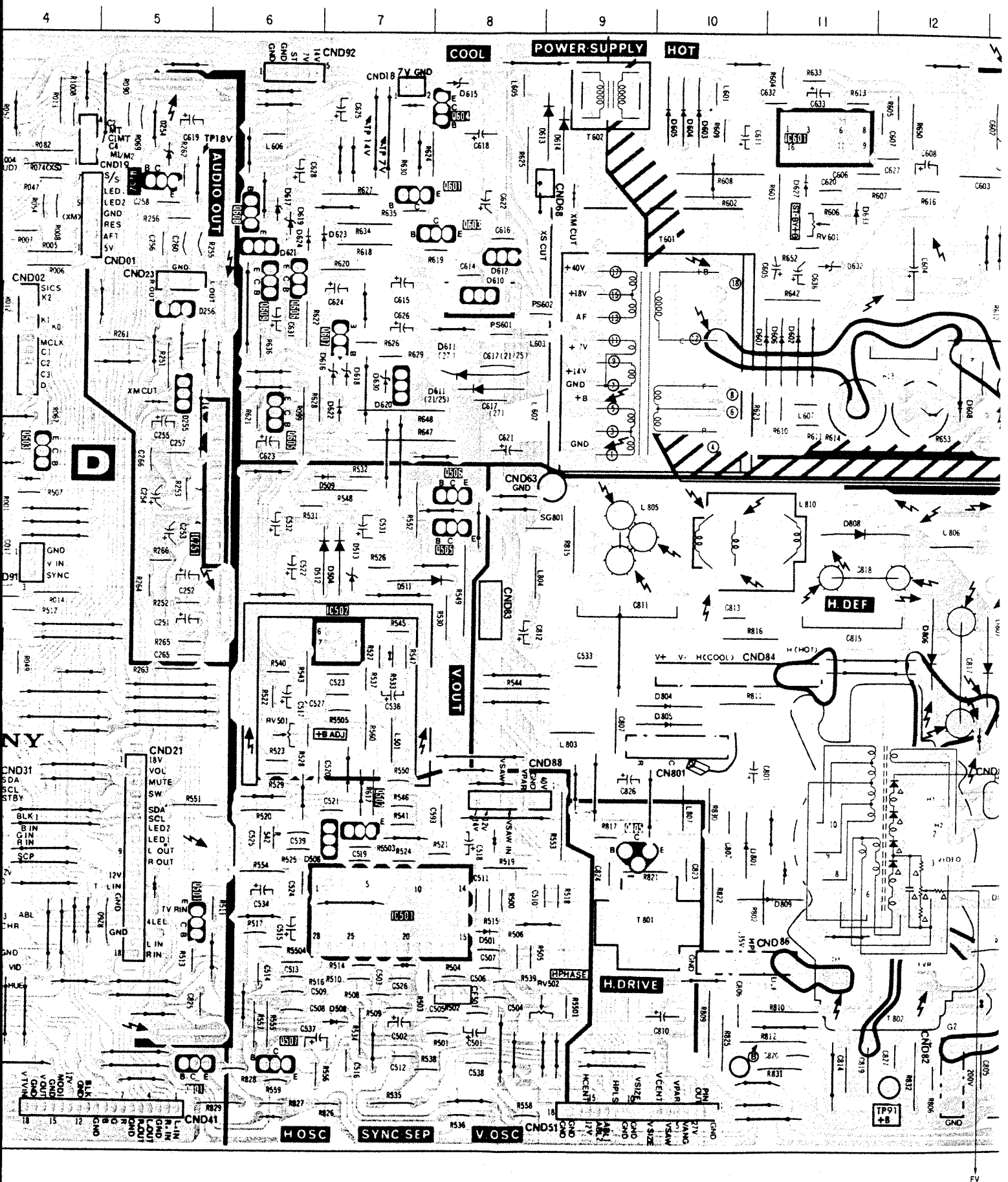


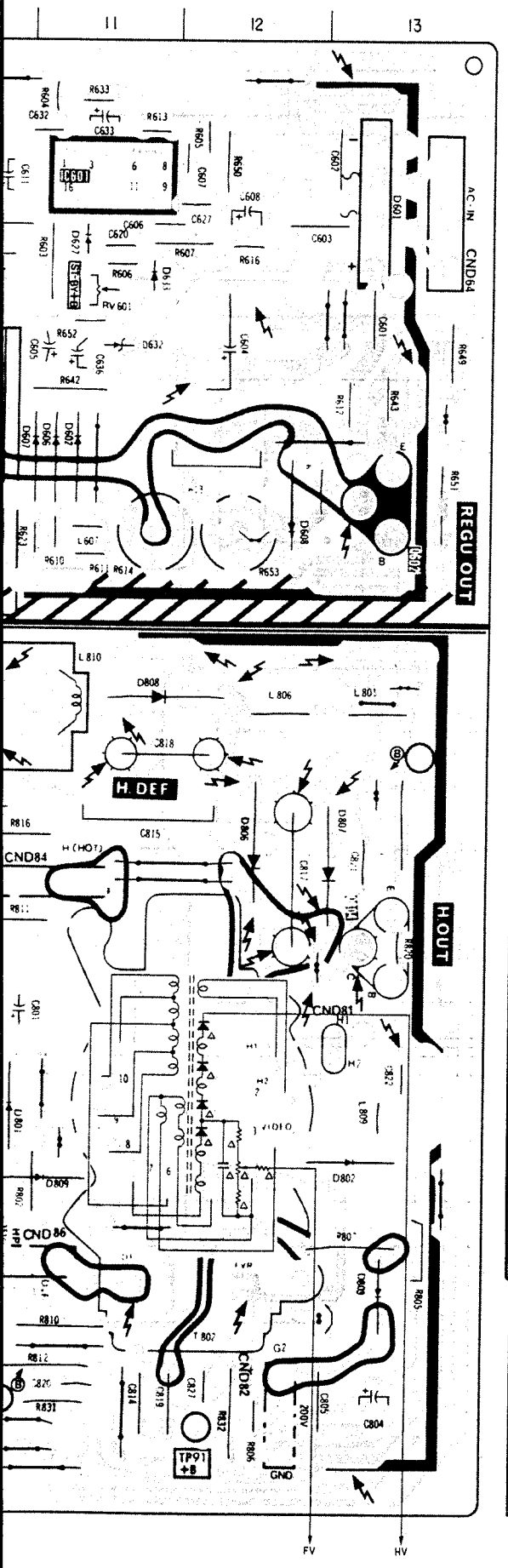
(503kHz)	⑬ 12Vp-p(H)	⑰ 5.6Vp-p(H)
-p(H)	⑭ 1200Vp-p(H)	⑱ 5.6Vp-p(V)
-p(H)	⑮ 1Vp-p(H)	⑲ 6.4Vp-p(H)
-p(H)	⑯ 11Vp-p(H)	

D [AF OUT, Y-CHROMA, JUNGLE, V-H DEF]

— D Board —

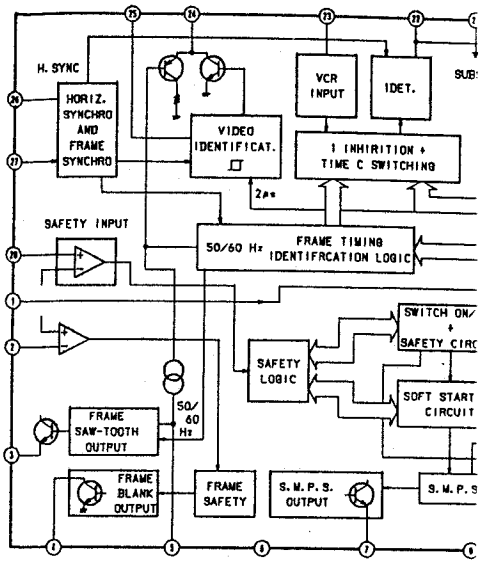



4
5
6
7
8
9
10
11
12
COOL
POWER SUPPLY
HOT
AUDIO OUT
V.OUT
H.DEF
H.DRIVE
H.OSC
SYNC SEP
V.OSC
CND92
CND18
CND01
CND02
CND23
CND21
CND31
CND41
CND63
CND83
CND84
CND88
CND86
CND82
CND51
CN801
CND68
IC502
IC503
IC501
T602
T601
T801
T802
PS602
PS601
SG801
RV601
RV501
RV502
TP18V
TP14V
TP7V
TP91
+B ADJ
HPHASE
FV

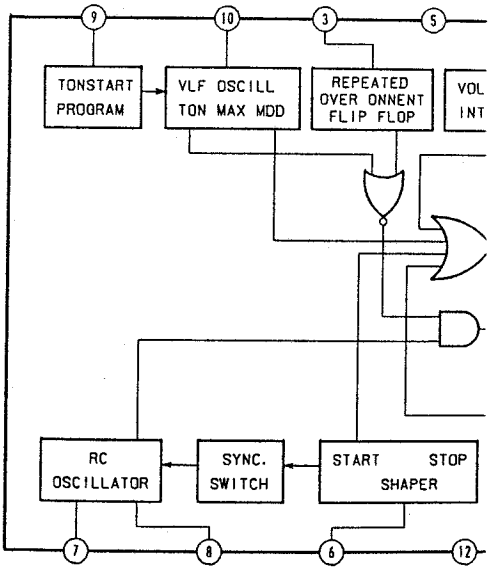


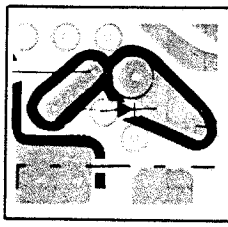
IC		DIODE	
IC001	D-3	D001	E-4
IC002	B-2	D002	E-3
IC003	E-3	D003	E-3
IC004	F-2	D004	D-3
IC251	E-6	D005	B-1
IC401	J-2	D007	D-1
IC501	H-7	D008	F-3
IC502	F-7	D009	I-3
IC601	B-11	D011	E-3
		D012	F-2
		D013	G-2
TRANSISTOR		D254	B-5
Q001	E-2	D501	I-8
Q002	B-1	D504	E-7
Q003	I-2	D506	H-7
Q004	H-2	D508	I-7
Q252	B-6	D511	F-8
Q501	H-6	D512	E-7
Q502	H-7	D513	E-7
Q503	D-4	D591	J-2
Q505	E-8	D592	I-2
Q506	E-8	D593	I-2
Q507	J-6	D601	B-13
Q591	I-3	D602	C-11
Q598	I-3	D603	A-10
Q601	B-8	D604	A-10
Q602	D-13	D605	A-10
Q603	B-8	D606	C-11
Q604	A-8	D607	C-11
Q605	D-6	D608	D-11
Q606	C-6	D610	C-8
Q607	C-7	D611	D-8
Q608	B-6	D612	C-8
Q609	C-6	D613	A-9
Q801	J-6	D614	B-9
Q804	G-13	D615	A-8
Q805	H-10	D616	D-7
		D617	B-6
		D618	D-7
		D619	B-6
		D620	D-8
		D621	C-6
		D622	D-7
		D623	C-7
		D624	C-7
		D627	B-11
		D630	D-7
		D632	C-11
		D633	C-11
		D801	H-11
		D802	H-13
		D803	I-13
		D804	G-10
		D805	G-10
		D806	F-12
		D808	E-12
		D809	H-11
		VARIABLE RESISTOR	
		RV501	G-6
		RV502	I-9
		RV601	B-11

D BOARD IC501 TEA2028A



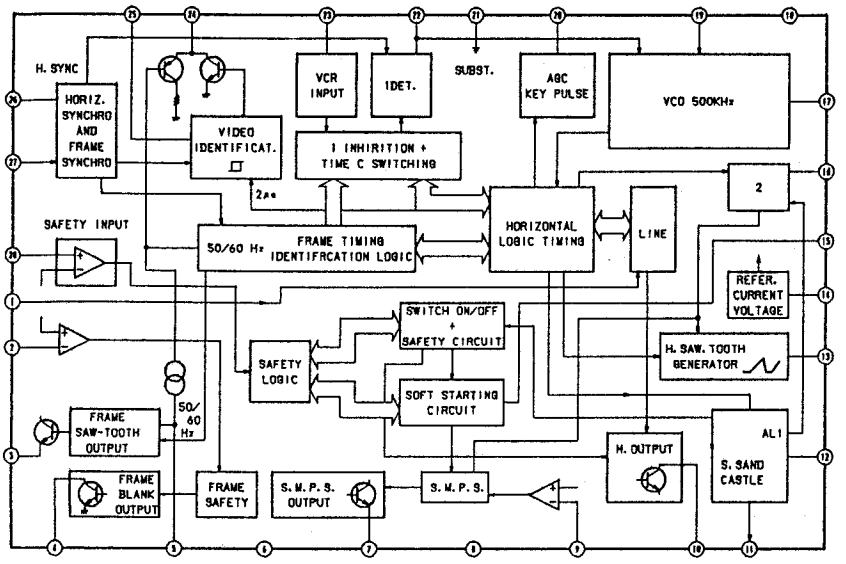
D BOARD IC601 TEA2164



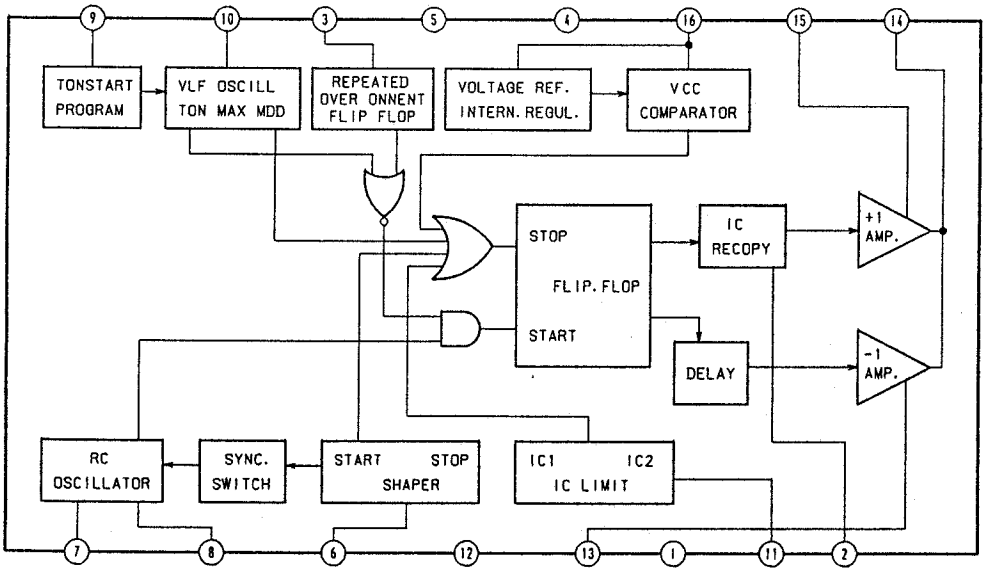


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

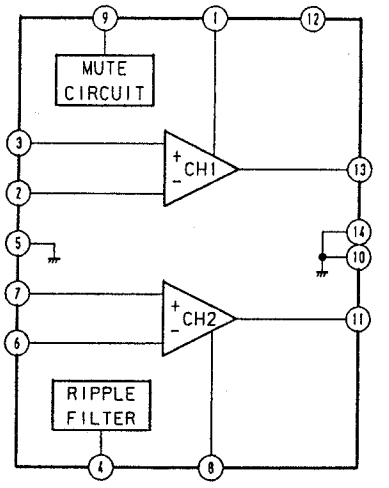
D BOARD IC501 TEA2028A



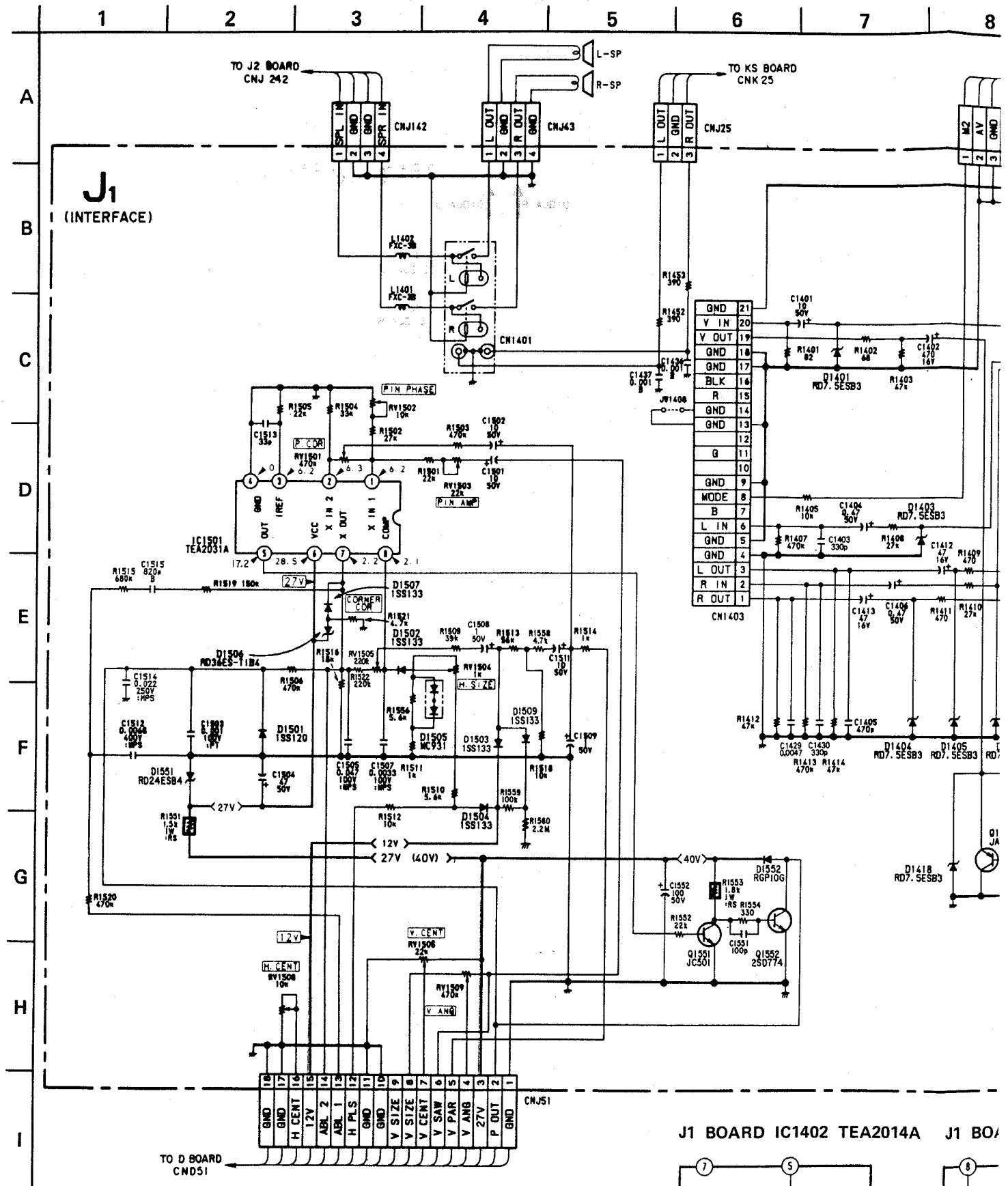
D BOARD IC601 TEA2164



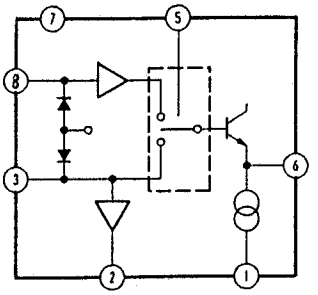
D BOARD IC251 LA4280



indicated as left contains high voltage of over
are must be paid to prevent an electric shock in
r repairing.



J1 BOARD IC1402 TEA2014A



For Service Manuals
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8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
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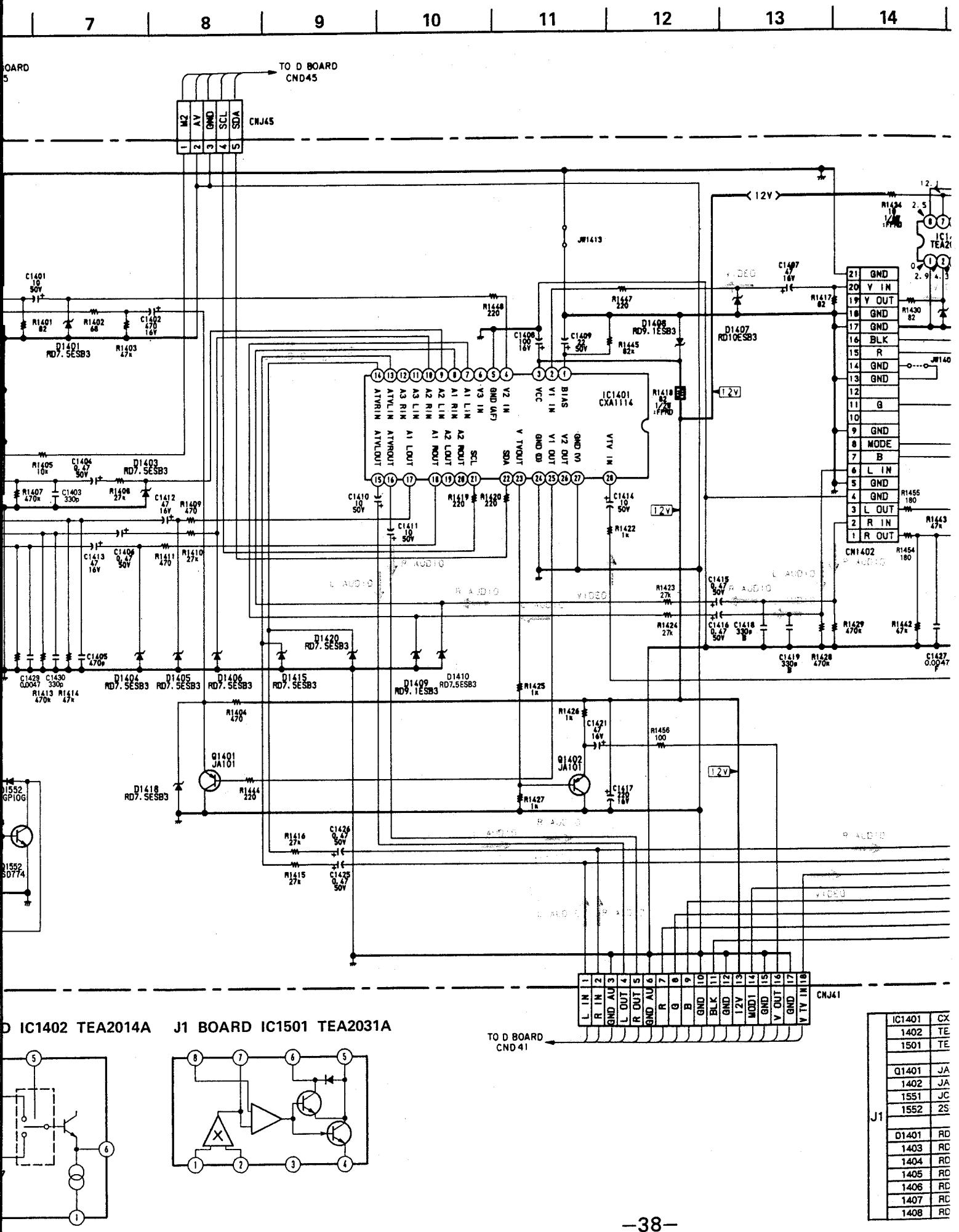
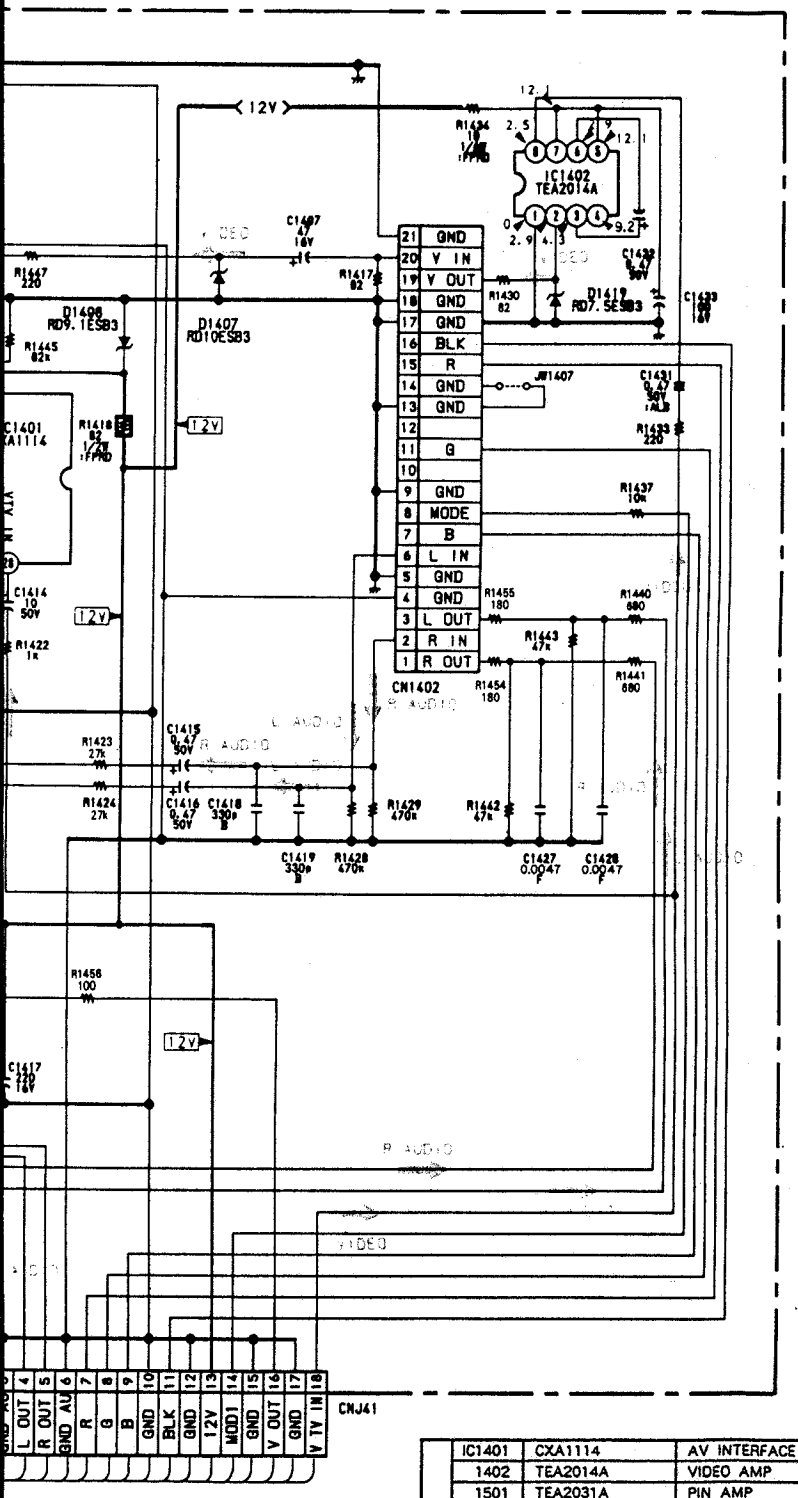
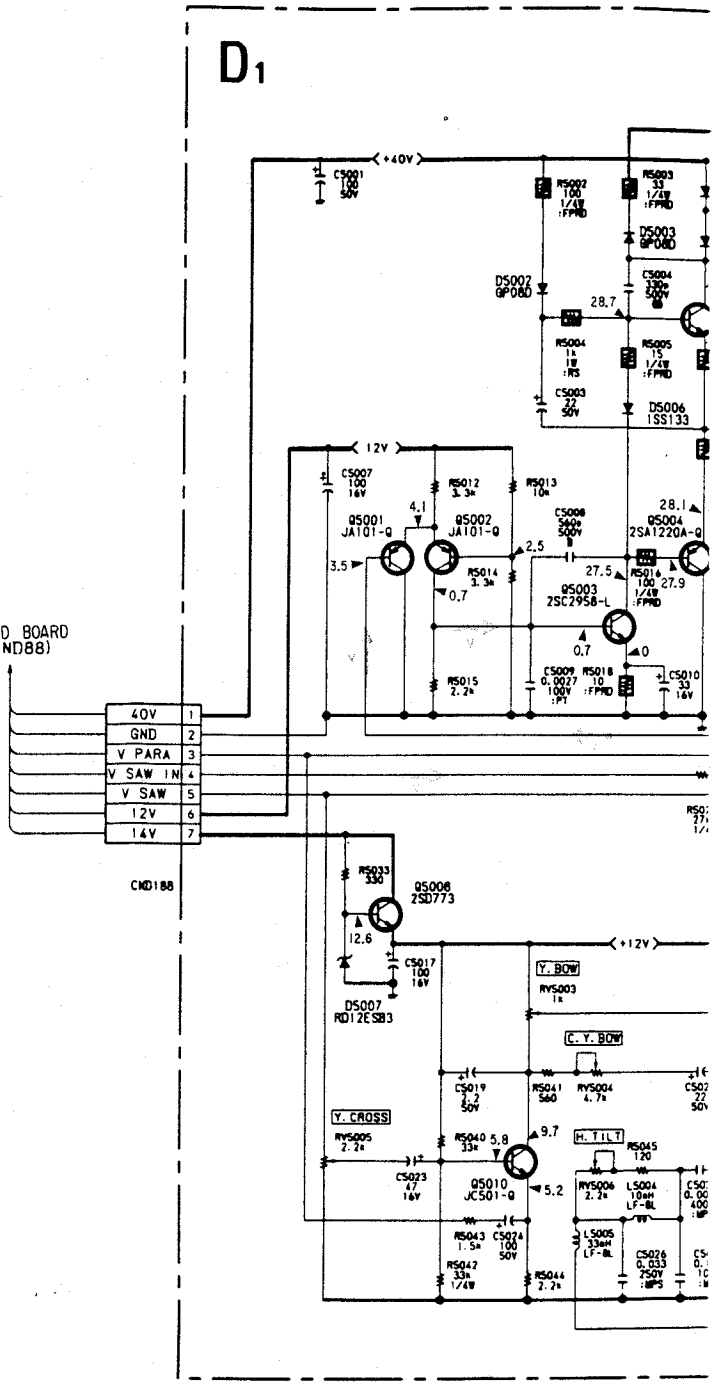


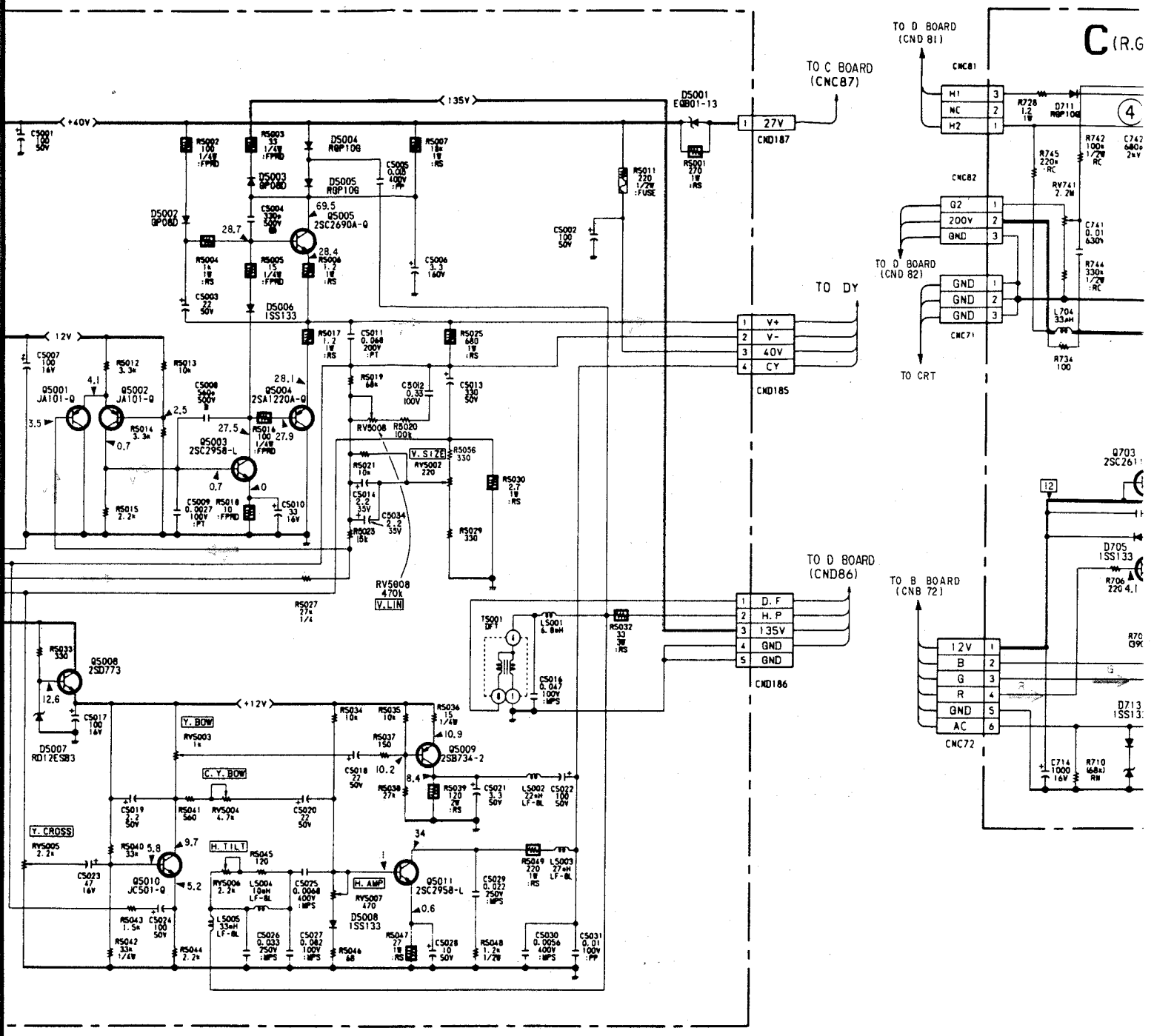
D IC1402 TEA2014A J1 BOARD IC1501 TEA2031A

J1	IC1401	CX
	1402	TE
	1501	TE
	Q1401	JA
	1402	JA
	1551	JC
	1552	2S
	D1401	RD
	1403	RD
	1404	RD
	1405	RD
	1406	RD
	1407	RD
	1408	RD





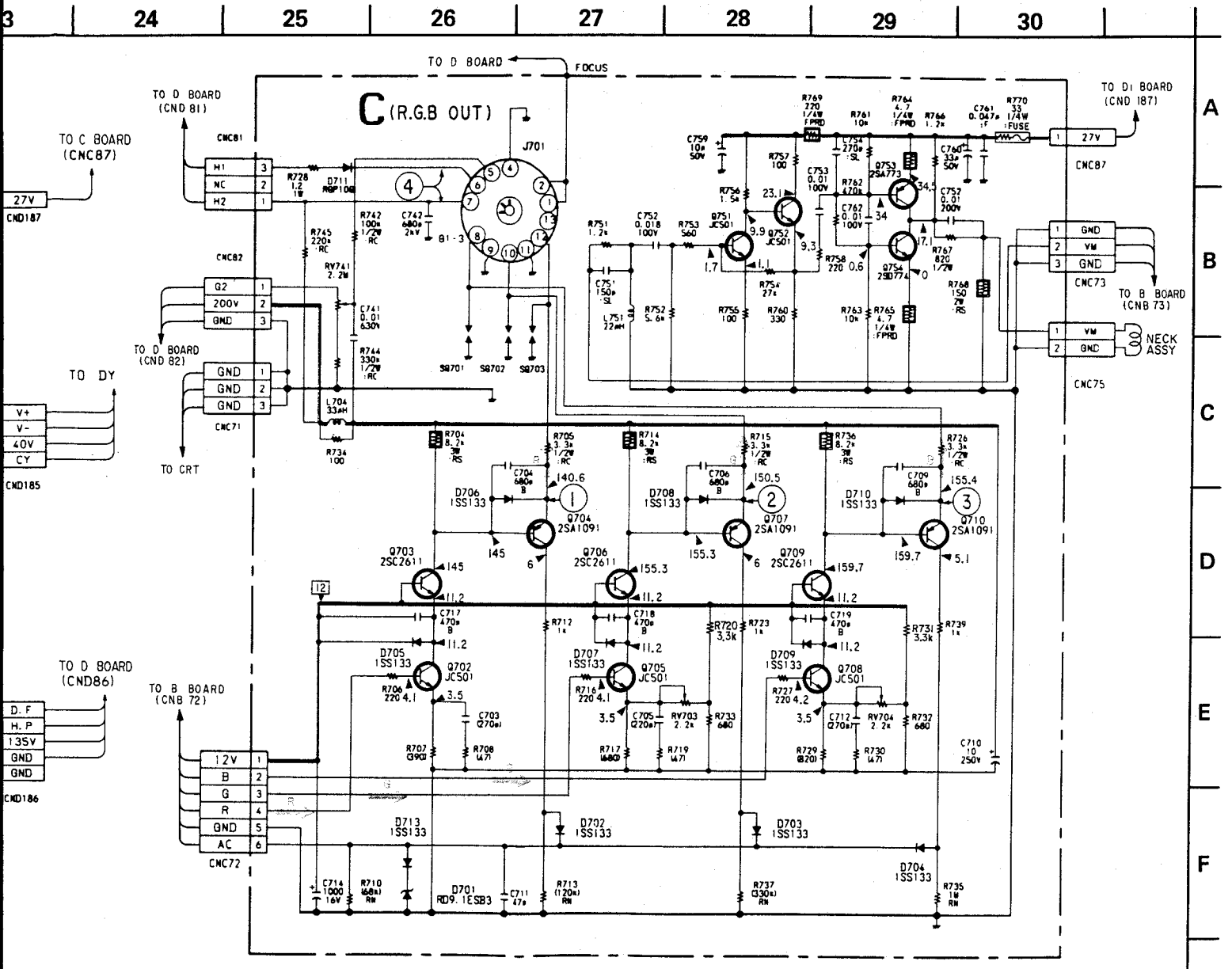
J1	IC1401	CXA1114	AV INTERFACE	1409	RD7.5ESB3	PROTECT
	1402	TEA2014A	VIDEO AMP	1410	RD7.5ESB3	PROTECT
	1501	TEA2031A	PIN AMP	1415	RD7.5ESB3	PROTECT
				1418	RD9.1ESB3	PROTECT
	Q1401	JA101	VIDEO BUFF	1419	RD7.5ESB3	PROTECT
	1402	JA101	VIDEO BUFF	1420	RD7.5ESB3	PROTECT
	1551	JC501	PIN DRIVE	1501	1SS120	PROTECT
	1552	2SD774	PIN AMP	1502	1SS133	DC STOP
				1503	1SS133	CORNER CORRECT
	D1401	RD7.5ESB3	PROTECT	1504	1SS133	H.P SLICER
	1403	RD7.5ESB3	PROTECT	1505	MC931	PROTECT
	1404	RD7.5ESB3	PROTECT	1506	RD36ESB4	PROTECT
	1405	RD7.5ESB3	PROTECT	1507	1SS133	PROTECT
	1406	RD7.5ESB3	PROTECT	1509	1SS133	COR ANGLE
	1407	RD10ESB3	PROTECT	1551	RD24ES-B4	24V ZENER
	1408	RD9.1ESB3	9V REG	1552	RGP10GPKG23	PIN AMP

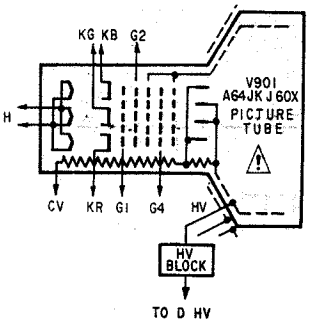


D1	Q5001	JA101	V.AMP	D5001	EQB01-11	13V ZENER
	5002	JA101	V.PREAMP	5002	GP08DPKG23	CC STOP
	5003	2SC2958	V.DRIVE	5003	GP08DPKG23	PROTECT
	5004	2SA1220	V.OUT	5004	RGP10GPKG23	V.DRIVE
	5005	2SC2690	V.OUT	5005	RGP10GPKG23	V.DRIVE
	5008	2SD773	REG	5006	1SS133	CC DEF
	5009	2SB734	Y.BOW	5007	RD12ES-B3	REG
	5010	JC501	Y.CROSS	5008	1SS133	CC DEF
	5011	2SC2958	H.AMP			

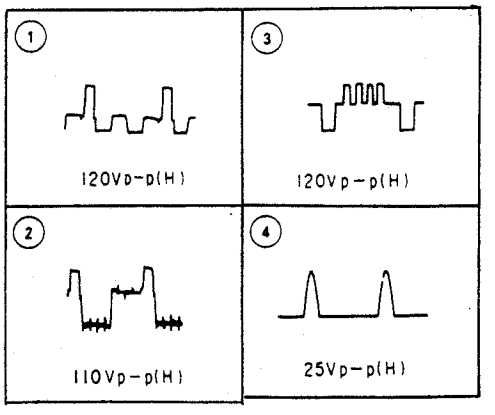
C	Q 702	JC501	R AMP
	703	2SC2611	R OUT
	704	2SA1091	R AC AMP
	705	JC501	G AMP
	706	2SC2611	G OUT
	707	2SA1091	G AC AMP
	708	JC501	B AMP
	709	2SC2611	B OUT
	710	2SA1091	B AC AMP
	751	JC501	VM AMP
	752	JC501	VM AMP
	753	2SA773	VM OUT
	754	2SD774	VM OUT

CORRECT
ER
LE
ER



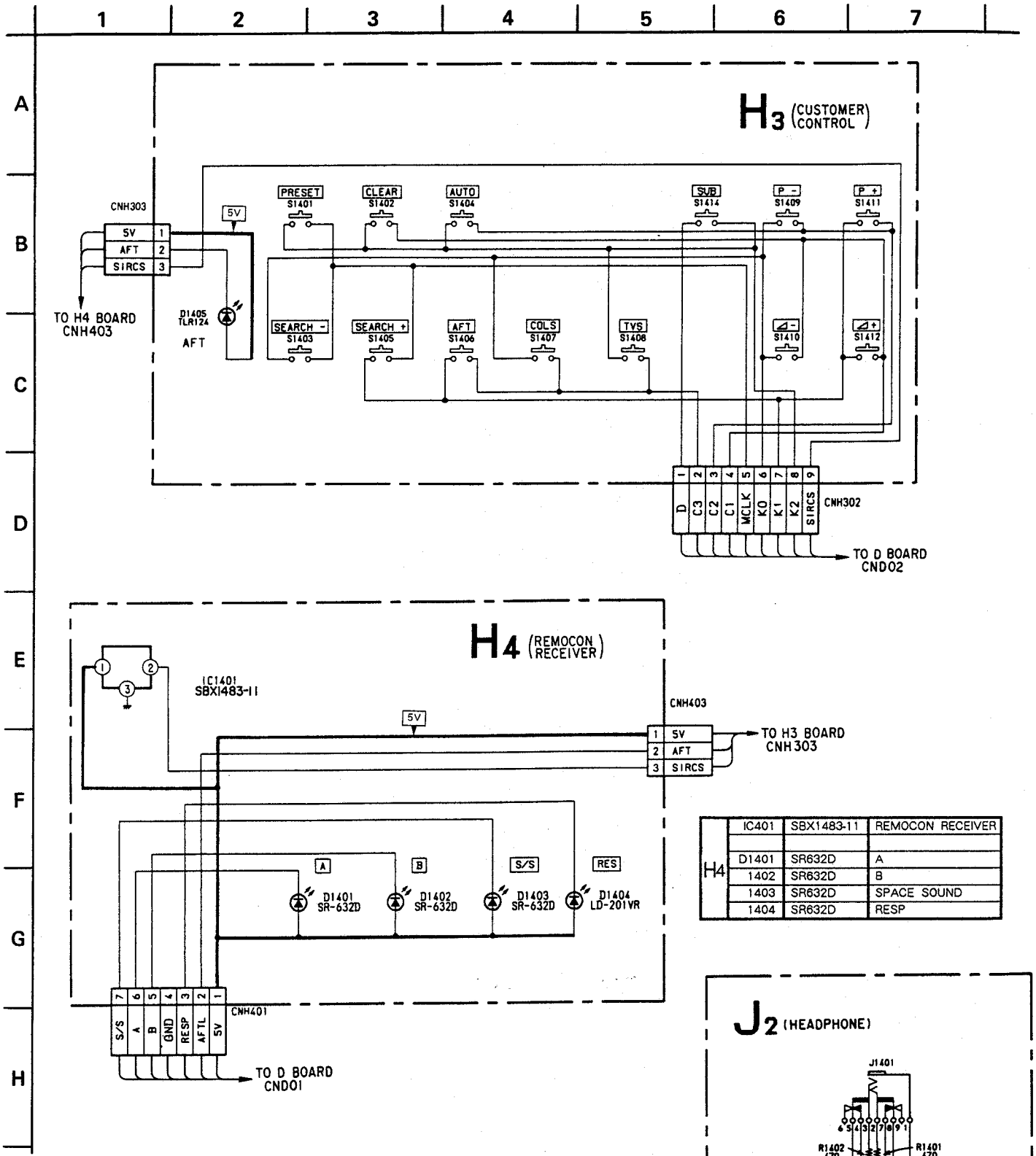


• C BOARD WAVEFORM



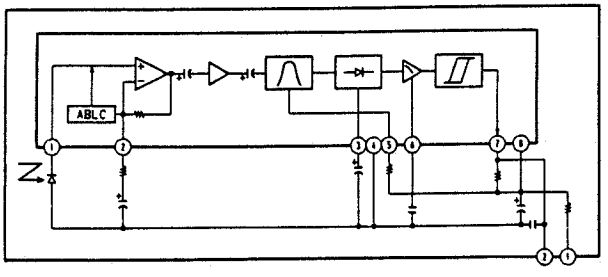
C	Q 702	JC501	R AMP	D 701	RD9.1ES-B3	PROTECT-1
	703	2SC2611	R OUT	702	1SS133	AC MIX-1
	704	2SA1091	R AC AMP	703	1SS133	AC MIX-2
	705	JC501	G AMP	704	1SS133	AC MIX-3
	706	2SC2611	G OUT	705	1SS133	PROTECT-2
	707	2SA1091	G AC AMP	706	1SS133	PROTECT-3
	708	JC501	B AMP	707	1SS133	PROTECT-4
	709	2SC2611	B OUT	708	1SS133	PROTECT-5
	710	2SA1091	B AC AMP	709	1SS133	PROTECT-6
	751	JC501	VM AMP	710	1SS133	PROTECT-7
	752	JC501	VM AMP	711	RGP10G	PROTECT-8
	753	2SA773	VM OUT	713	1SS133	PROTECT
	754	2SD774	VM OUT			

3V ZENER
C STOP
ROTECT
.DRIVE
.DRIVE
C DEF
EG
C DEF



H4	IC401	SBX1483-11	REMOCON RECEIVER
	D1401	SR632D	A
	1402	SR632D	B
	1403	SR632D	SPACE SOUND
	1404	SR632D	RESP

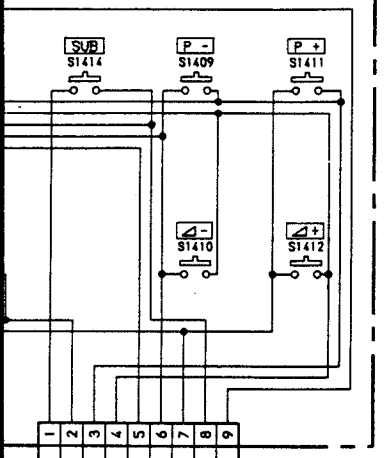
H4 BOARD IC1401 SBX1483-11

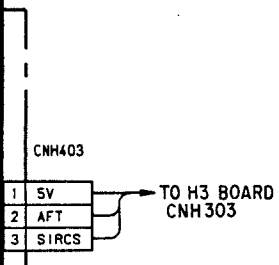


6 7

J1 [INTERFACE] **J2** [HEADPHONE JACK] **D1** [HEADP

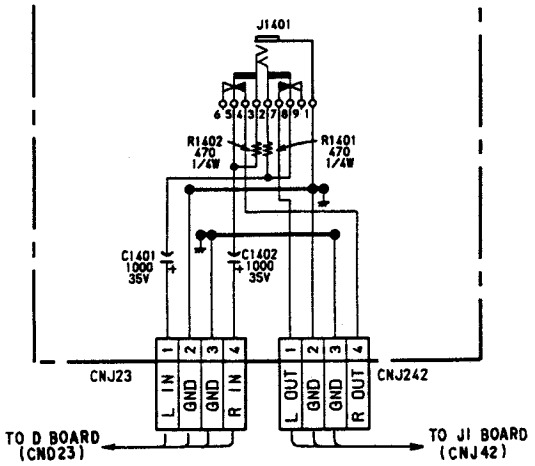
H3 (CUSTOMER CONTROL)



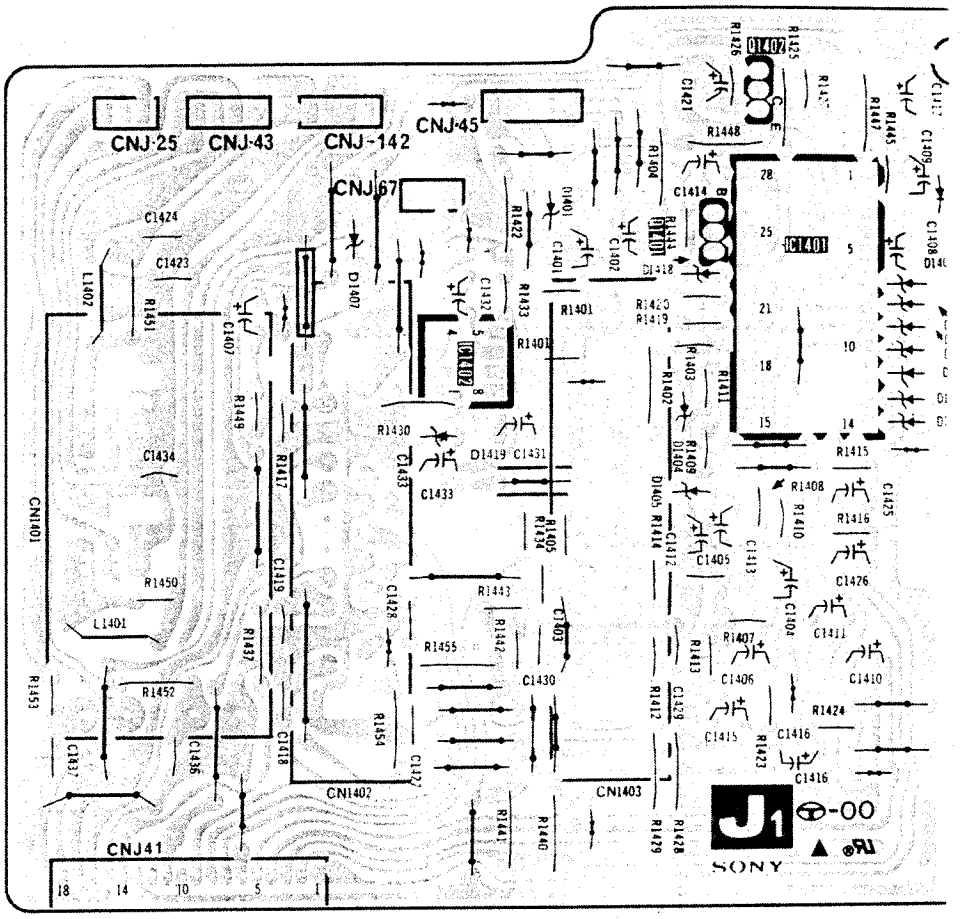


H4	IC401	SBX1483-11	REMOCON RECEIVER
	D1401	SR632D	A
	1402	SR632D	B
	1403	SR632D	SPACE SOUND
	1404	SR632D	RESP

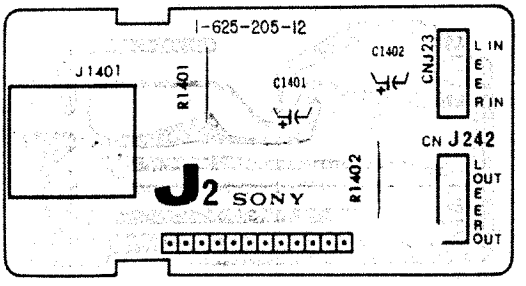
J2 (HEADPHONE)



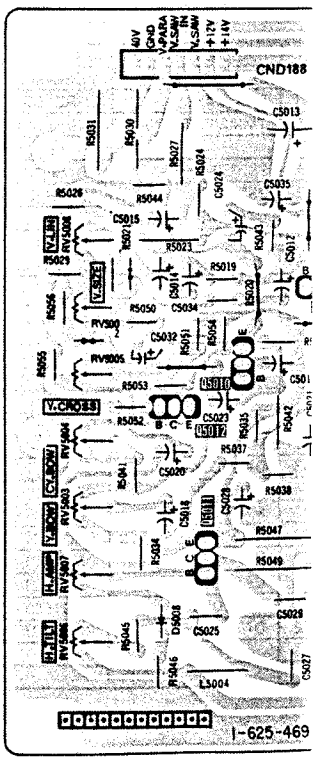
— J1 Board —



— J2 Board —



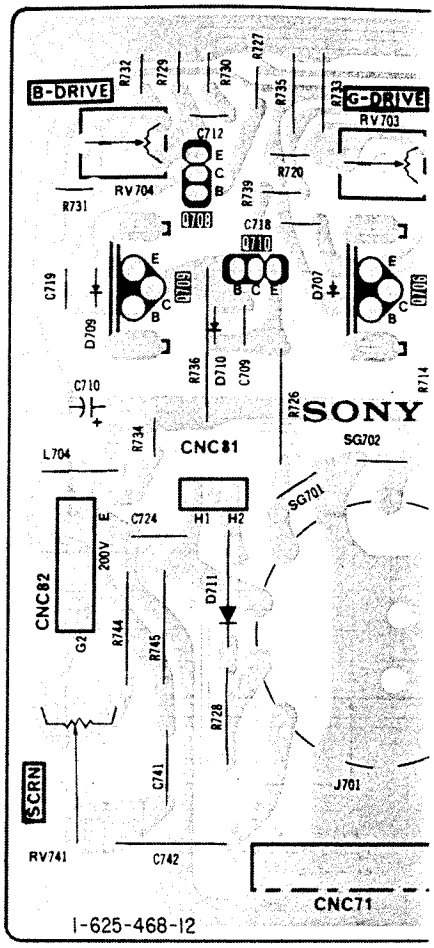
— D1 Board —



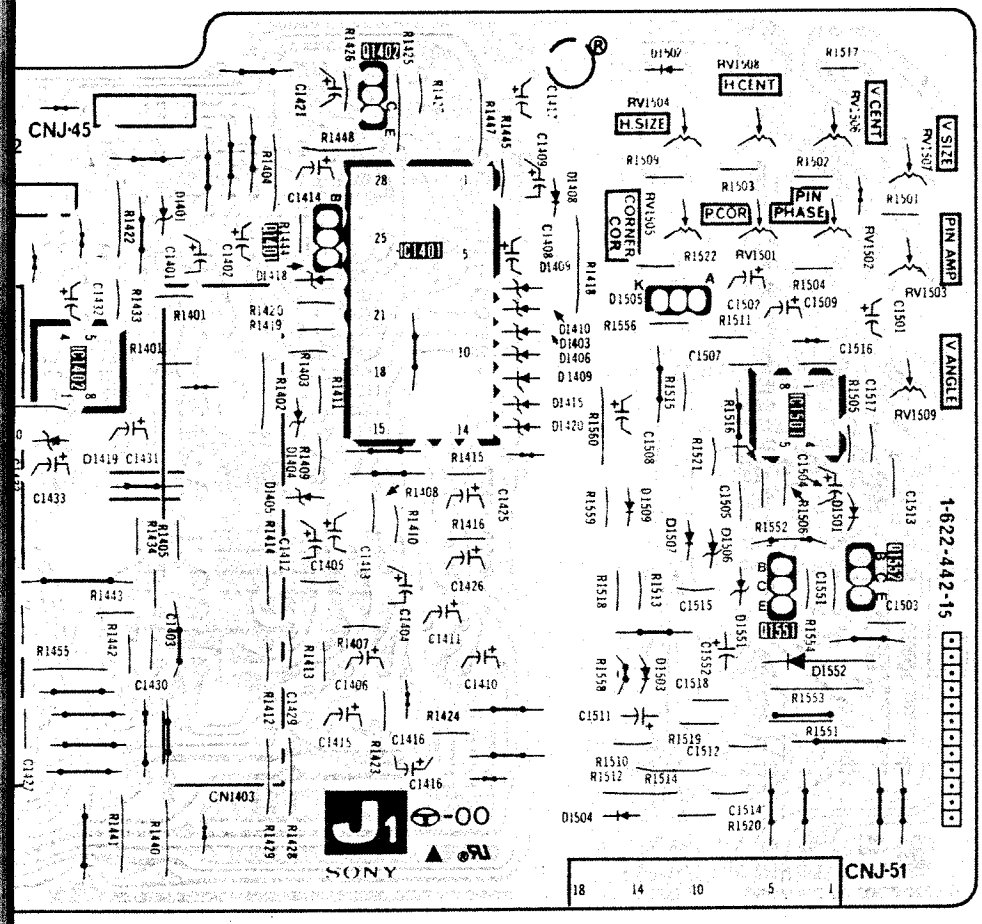
J2 [HEADPHONE JACK] **D1** [HEADPHONE]

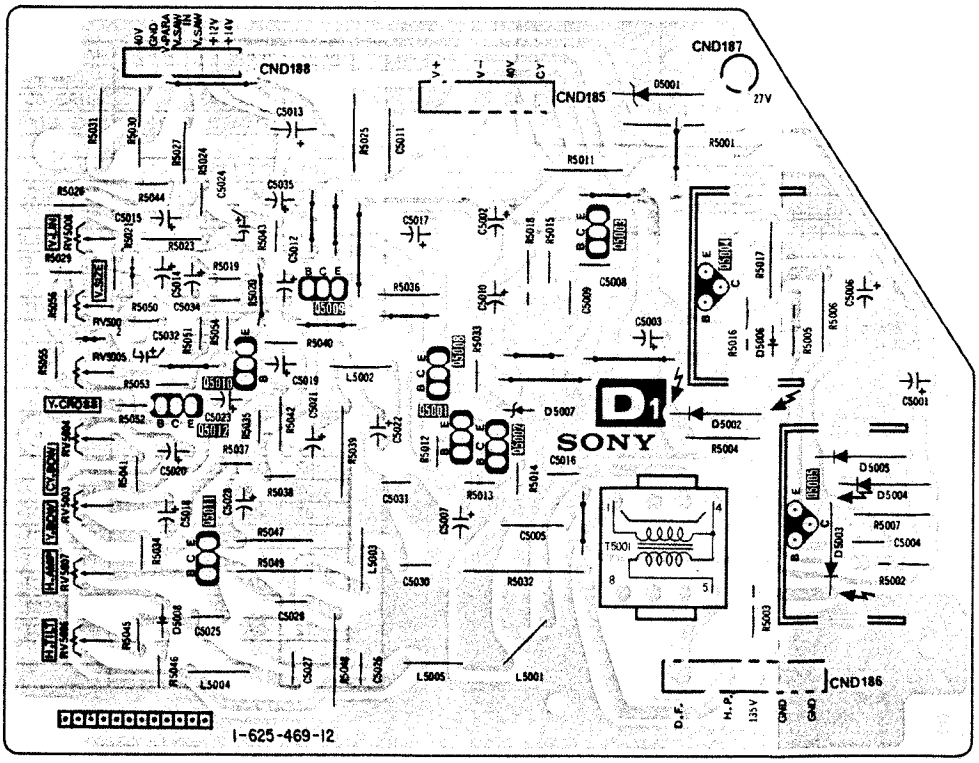
C

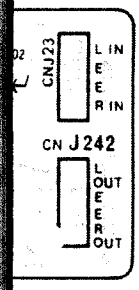
— C Board —



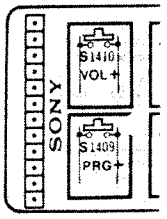
— D1 Board —



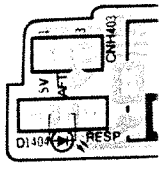




— H3 Board —

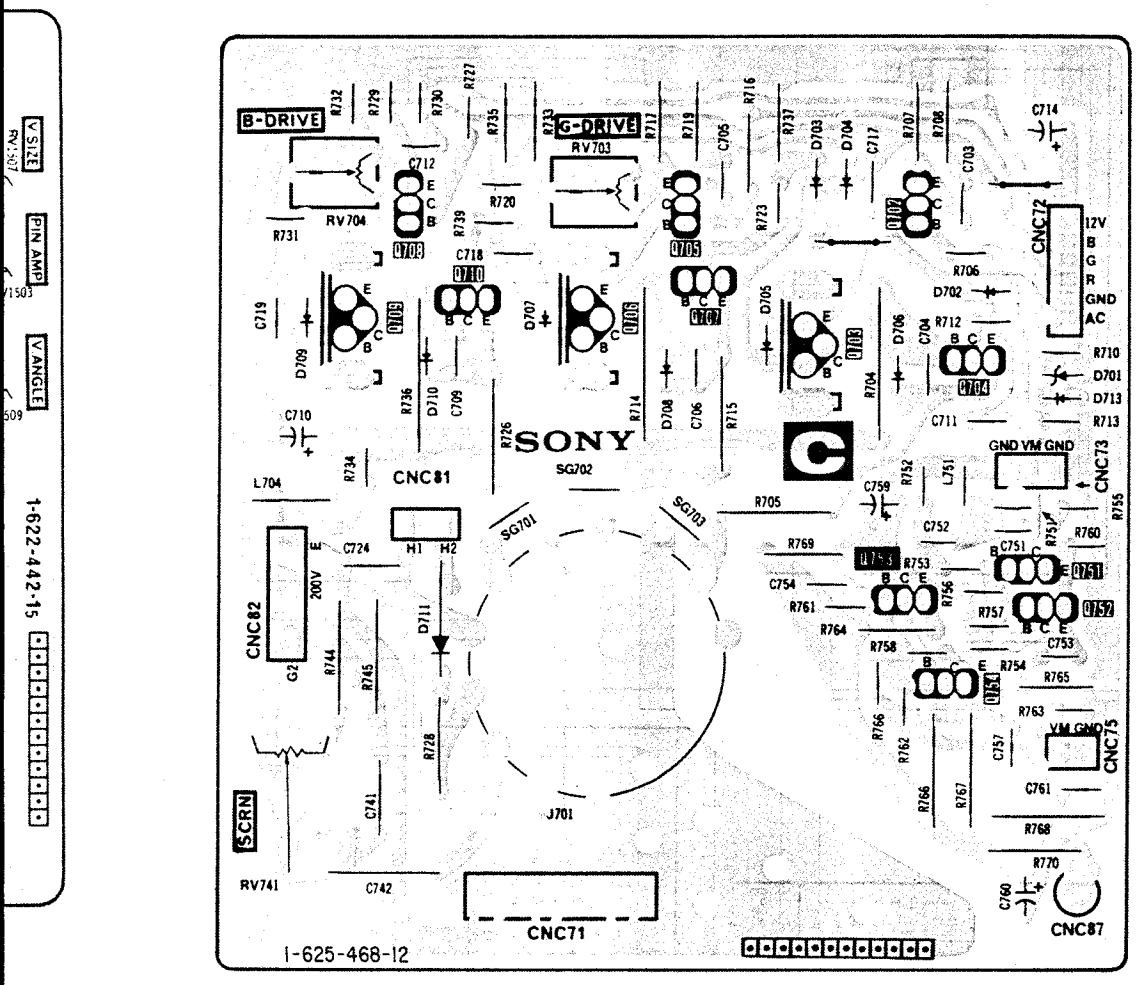


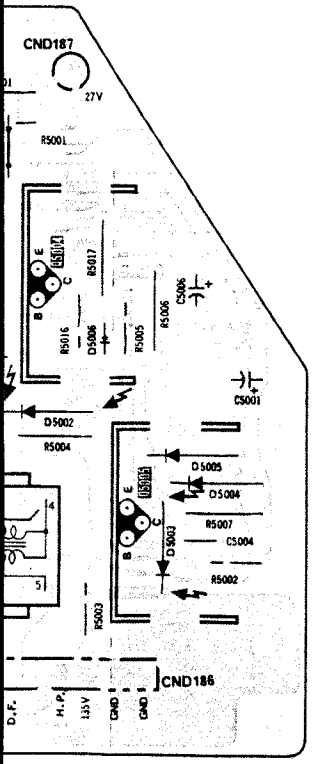
— H4 Board —



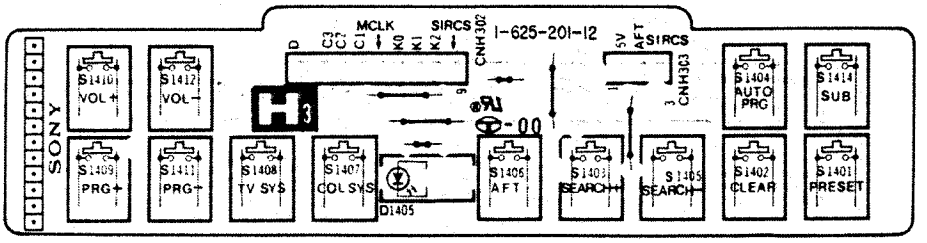
C [R·G·B OUT] **H3** [CUSTOMER CONTROL] **H4** [REMOCON RECEIVER]

– C Board –

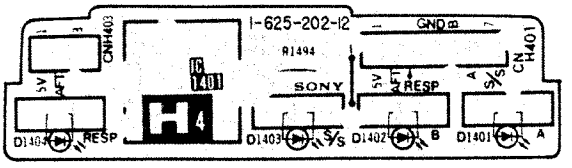


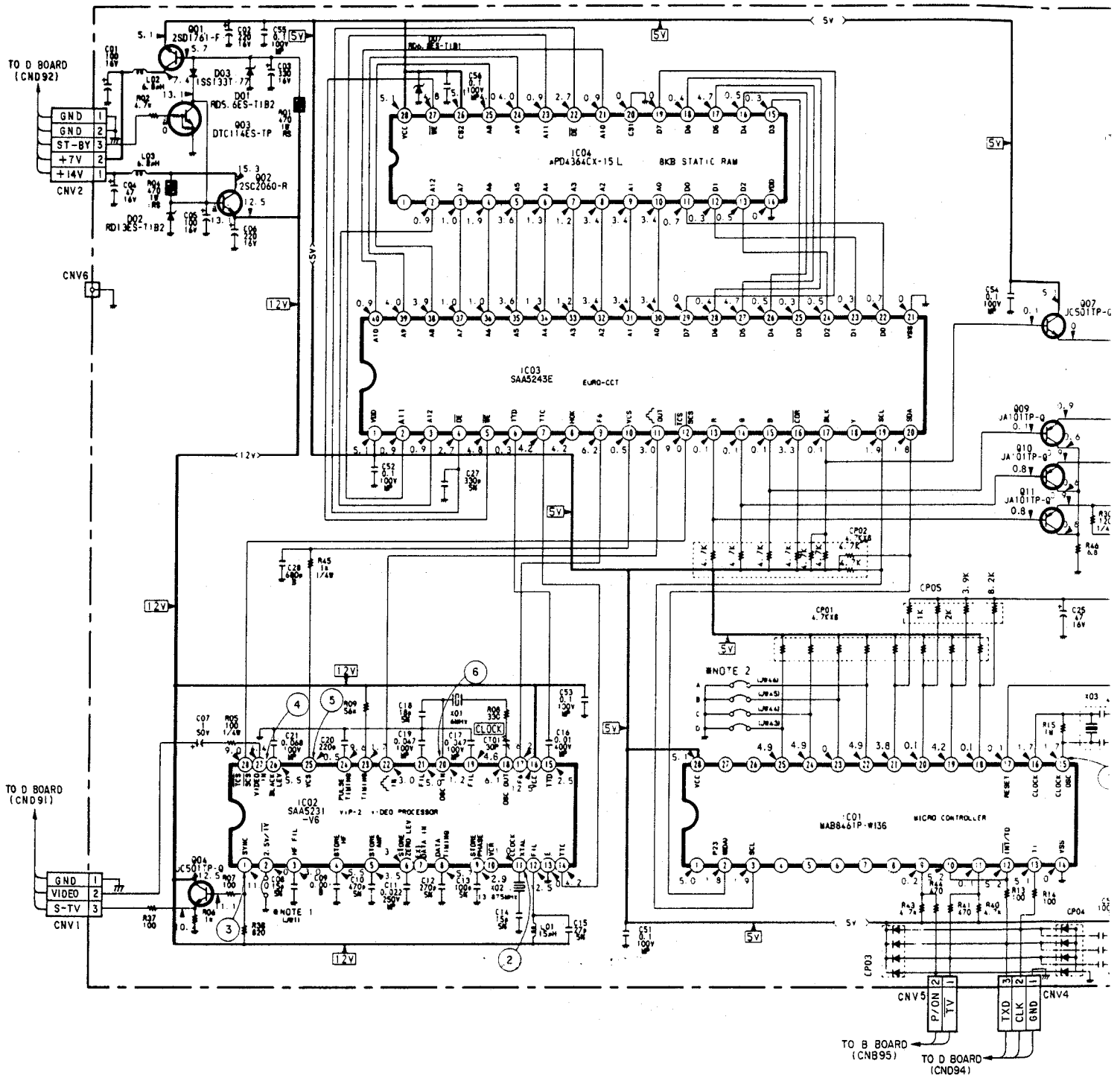


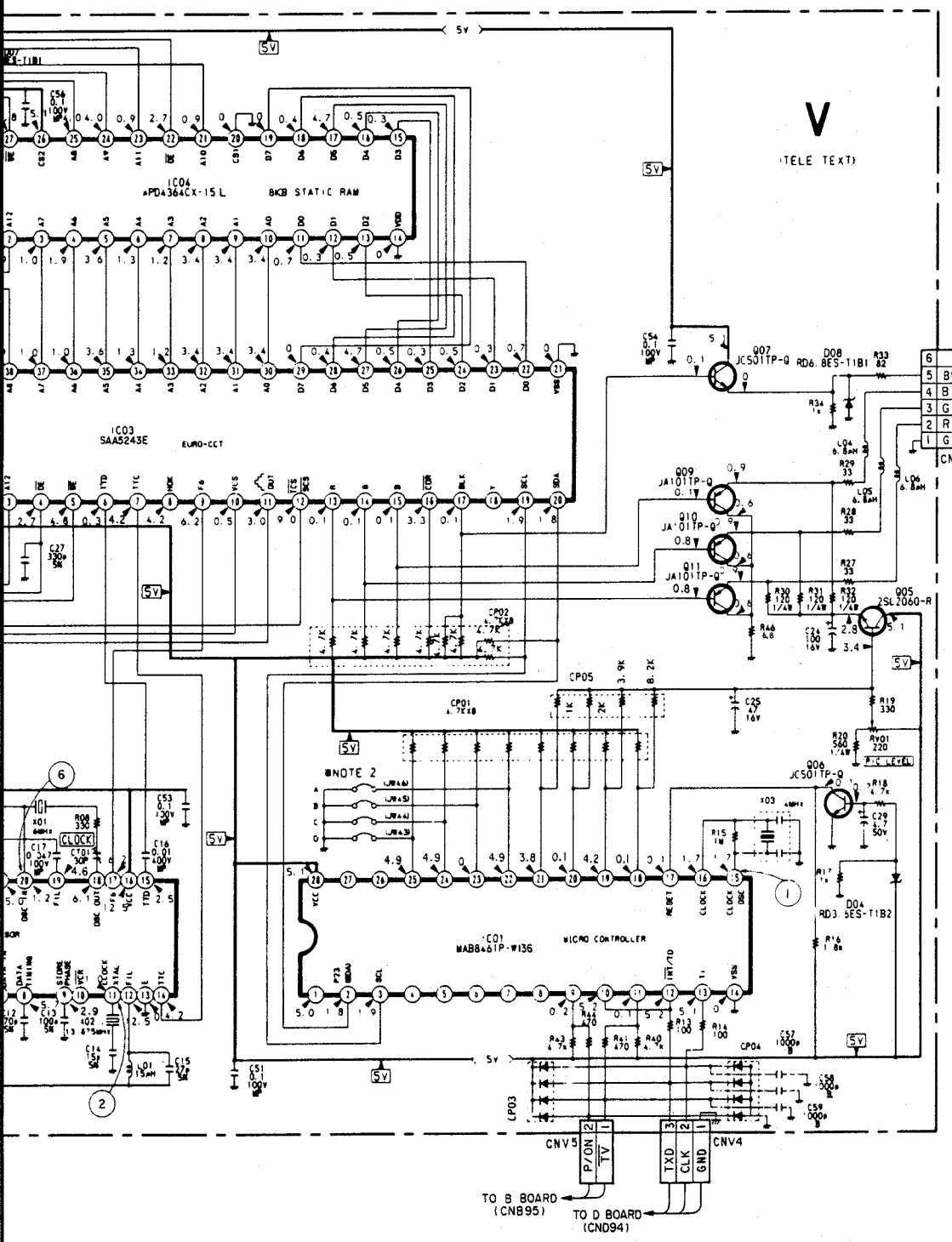
– H3 Board –

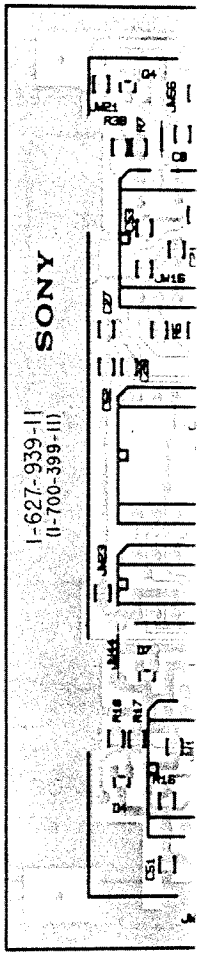


– H4 Board –

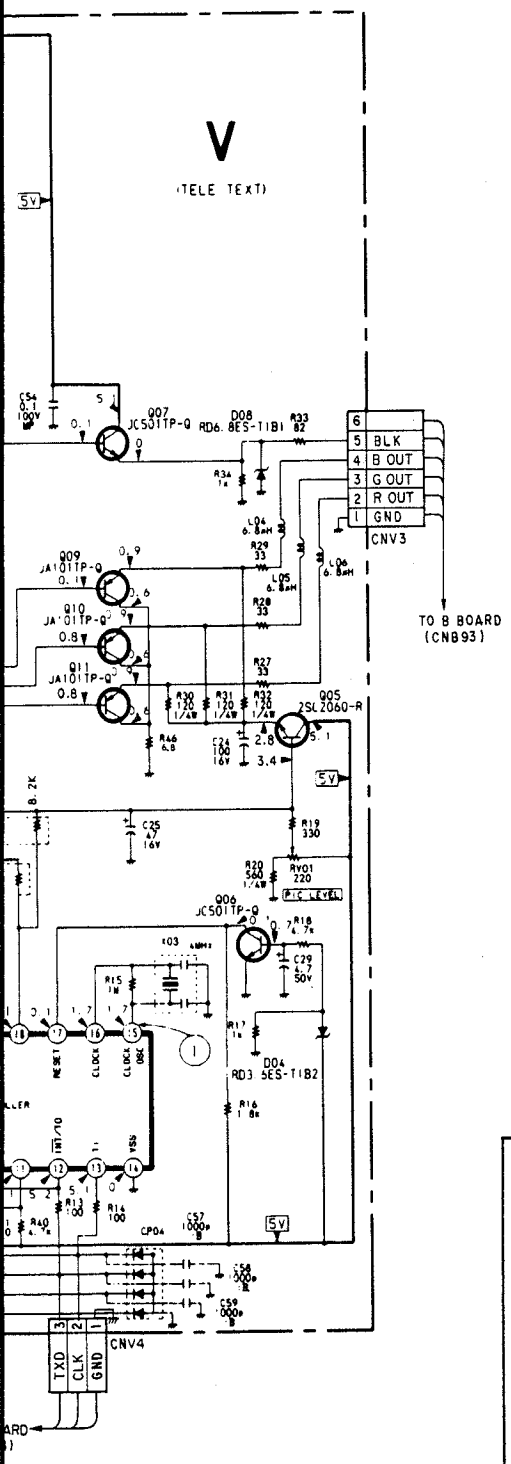



TO D BOARD (CND92)
GND
GND
ST-BY
+7V
+14V
CNV2
CNV6
TO D BOARD (CND91)
GND
VIDEO
S-TV
CNV1
IC04 μPD4364CX-15L 8KB STATIC RAM
IC03 SAA5243E EURO-CCT
IC02 SAA5231-V6 VIP-2 VIDEO PROCESSOR
IC01 MAB8461P-W136 MICRO CONTROLLER
CP01
CP02
CP03
CP04
CP05
CNV5
P/ON
TV
CNV4
TXD
CLK
GND
TO B BOARD (CNB95)
TO D BOARD (CND94)
NOTE 1
NOTE 2
CLOCK
5V
12V

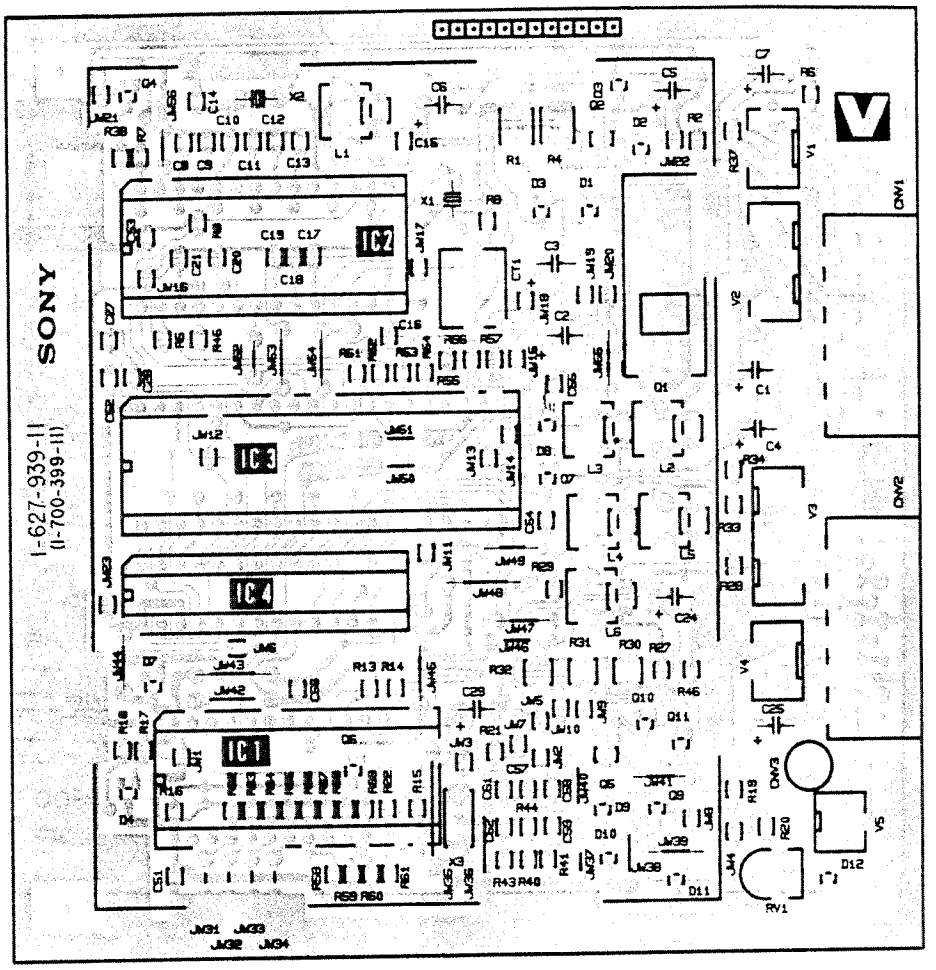




V	IC 01	MAB8461P-W136	MIC
	02	SAA5231-V4	VID
	03	SAA5243E	EUR
	04	TMM2063P-70	8KE
	Q 01	2SD1761-E	5V
	02	2SC2873Y	12V
	03	DTC114EK	ST
	04	2SC2712G	SYN
	05	2SC2873Y	PIC
	06	2SC2712G	RES
	07	2SC2712G	BLK
	09	2SB815B6	B C
	10	2SB815B6	G C
	11	2SB815B6	R C
	D 01	MA3056M-TX	5V
	02	MA3130-TX	12V
	03	DAN202K-TX	ST
	04	MA3063H-TX	RES
	07	MA3068M-TX	PRC
	08	MA3068M-TX	PRC
	09	DAN202K	PRC
	10	DAN202K	PRC
	11	DAP202K	PRC
	12	DAP202K	PRC



– V Board –



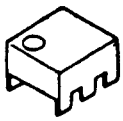
V	IC 01	MAB8461P-W136	MICRO CTL
	02	SAA5231-V4	VIDEO PROCESSOR
	03	SAA5243E	EURO CCT
	04	TMM2063P-70	8KB STATIC RAM
	Q 01	2SD1761-E	5V REG
	02	2SC2873Y	12V REG
	03	DTC114EK	ST BY
	04	2SC2712G	SYNC BUFF
	05	2SC2873Y	PIC LEVEL
	06	2SC2712G	RESET
	07	2SC2712G	BLK OUT
	09	2SB815B6	B OUT
	10	2SB815B6	G OUT
	11	2SB815B6	R OUT
	D 01	MA3056M-TX	5V REG
	02	MA3130-TX	12V REG
	03	DAN202K-TX	ST BY
	04	MA3063H-TX	RESET
	07	MA3068M-TX	PROTECT-1
	08	MA3068M-TX	PROTECT-2
	09	DAN202K	PROTECT
	10	DAN202K	PROTECT
	11	DAP202K	PROTECT
	12	DAP202K	PROTECT

• V BOARD WAVEFORM

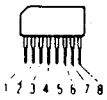
① 3.5Vp-p(4MHz)	④ 1Vp-p(H)
② 0.56Vp-p(8.75MHz)	⑤ 2.9Vp-p(H)
③ 1Vp-p(H)	⑥ 0.4Vp-p(6MHz)

5-5. SEMICONDUCTORS

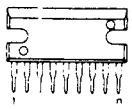
SBX1483-11



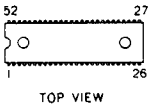
CX20061



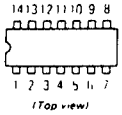
LA4280



M50436



M58655P



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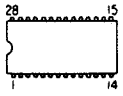
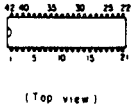
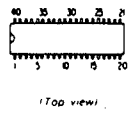
TDA4555
TDA4580/V4
TDA6200
TDA6600
TEA2028B
TMM2063P-70



MB88503H-597G
TC6011N



SAA5243E
SDA5241



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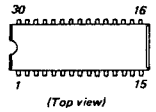

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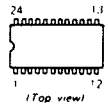
TD6710AN



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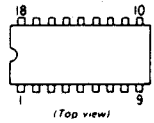
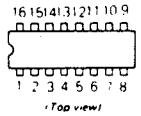


TC4053BP
TC4049BP
TDA3541
TDA4510
TDA8442
TEA2162A
TEA2164



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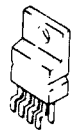

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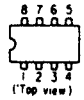
TEA2014A
TEA2031A



DTC114EK
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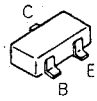
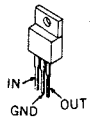
2SC2712G



NJM7812B
μPC7812H

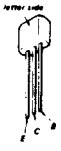


μPC574J

2SA933
2SA1091
JA101TP
JC501TP

2SA1048
2SA1115
2SC403SP
2SC1740SRT
2SC458
2SC2603
DTA144ES
DTC114ES
DTC124ES
DTC144ES

2SA1175
2SC2785



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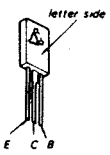
2SC2958
2SD773
2SD774

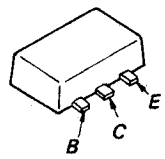
2SA773
2SB740
2SC1475
2SC2216
2SD789

2SB1185
2SD1761

2SA1220A
2SC2611
2SC2688
2SC2690A



2SC2873Y



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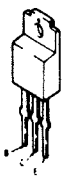
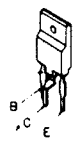
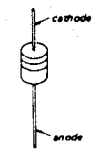


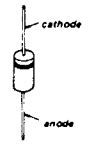
2SD1941



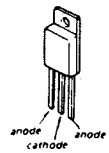
1SS119
1SS120
1SS133
HZS39NB4TD
RD3.6ES-TIB2
RD3.9ES-TIB1
RD4.7ES-B1
RD5.6ES-B2
RD6.2ES-TIB2
RD6.8ES-TIB2
RD7.5ES-B3
RD7.5ES-TIB3
RD9.1ES-TIB3
RD10ES-TIB3
RD11ES-TIB3
RD12ES-TIB3
RD15ES-TIB1
RD24ES-TIB4
RD36ES-TIB4
RD39ES-TIB4



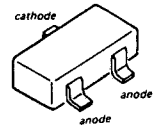
GP08DPKG23
RGP01-17PKG23
RGP10GPKG23



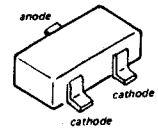
CTU-12S



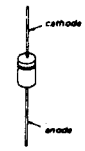
DAN202K



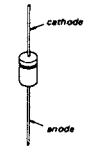
DAP202K



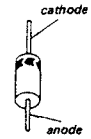
EQB01-11
EQB01-11Z
ERC06-15S
ERC24-06S
ERC25-06S
ERD28-06S
ES1F
RGP01-17PKG23
RGP10GPKG23
RGP15JPKG23
ERD29-08J



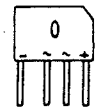
ERC06-15S
ERC25-06S



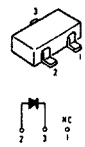
ERD29-08J



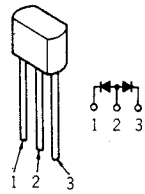
KBU-4J



MA3036H-TX
MA3056M-TK
MA3056M-TX
MA3068M-TX
MA3130L-TX

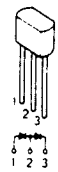


MC911

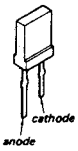


MC921

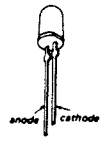
MC931TP



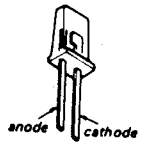
SLP-162B



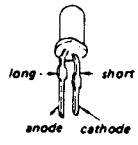
SE303AY



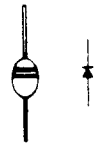
SR632D



TLR124
LD201VR



V19E



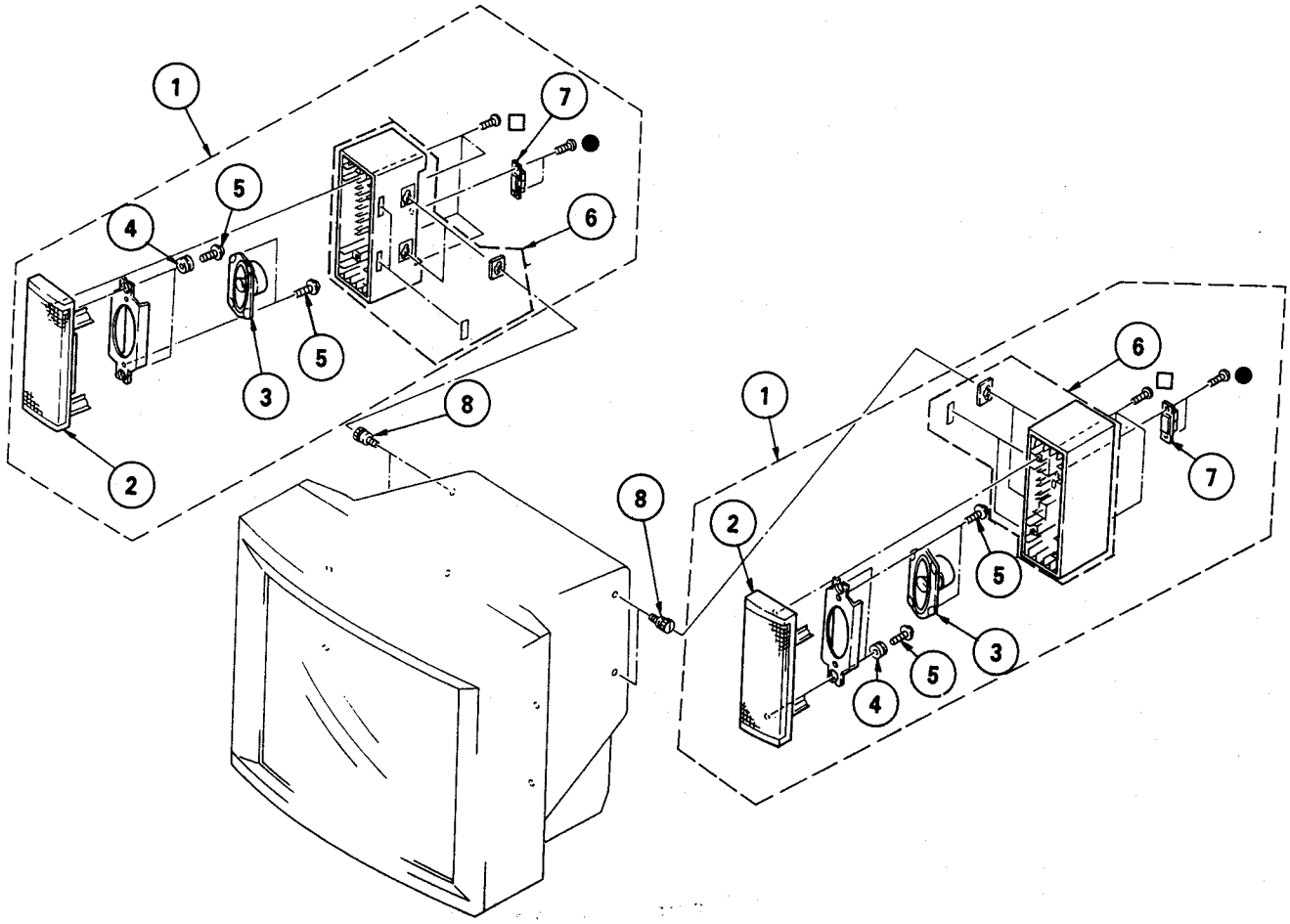
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. SPEAKER

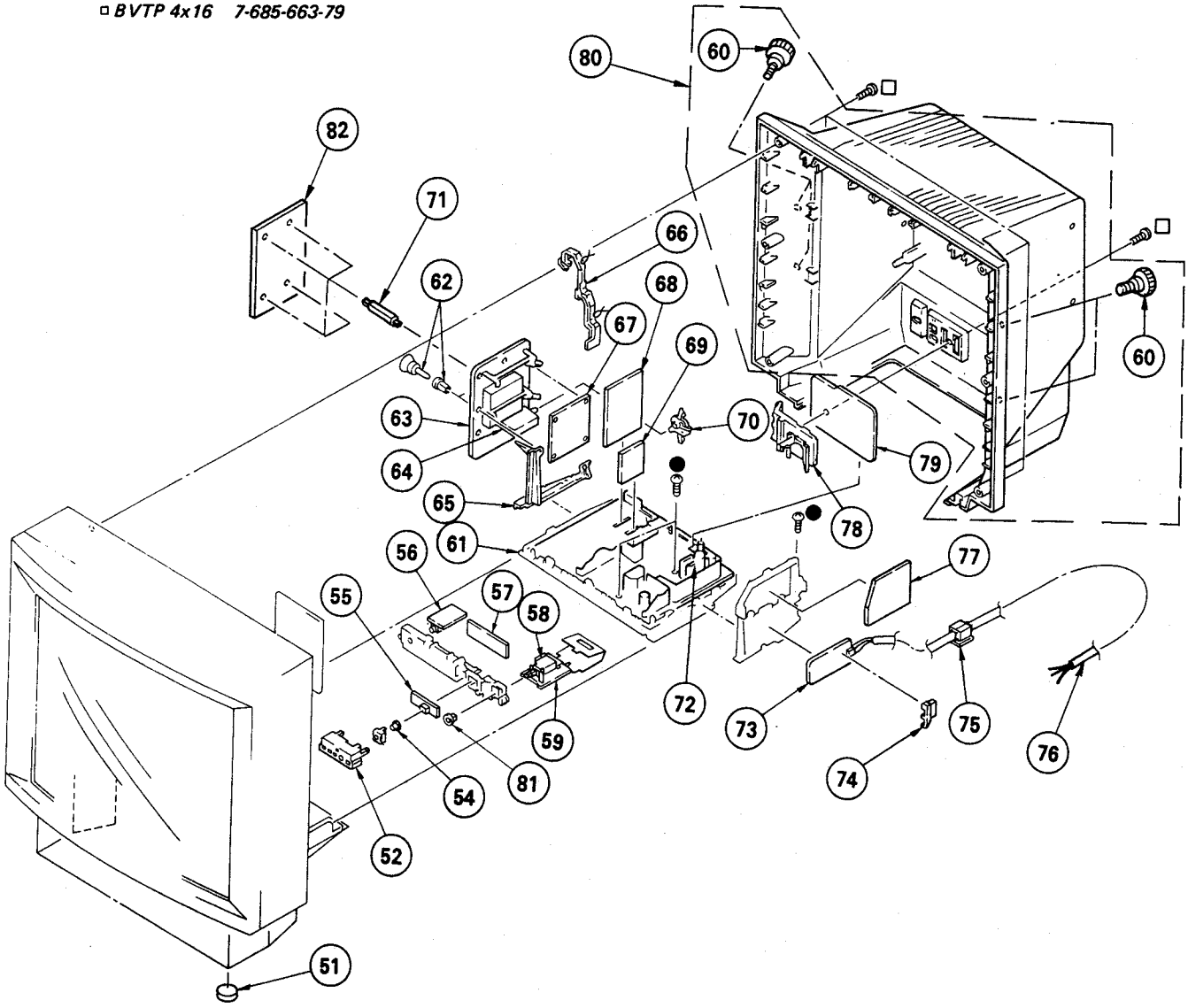
- ● *BVTP 3x12 7-685-648-79*
- □ *BVTP 4x16 7-685-663-79*



NO.	PART NO.	DESCRIPTION	REMARK
1	*A-1499-747-A	BOX ASSY, SPEAKER	2-7
2	X-4389-201-1	PANEL ASSY, SPEAKER	
3	1-544-009-11	SPEAKER	
4	4-380-612-01	CUSHION	
5	4-314-843-02	SCREW, TAPPING +P4X12	
6	X-4389-207-1	CABINET ASSY, SPEAKER	
7	1-537-022-11	TERMINAL BOARD (SPEAKER)	
8	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	

6-2. CHASSIS

- ● *BVTP 3x12 7-685-648-79*
- □ *BVTP 4x16 7-685-663-79*

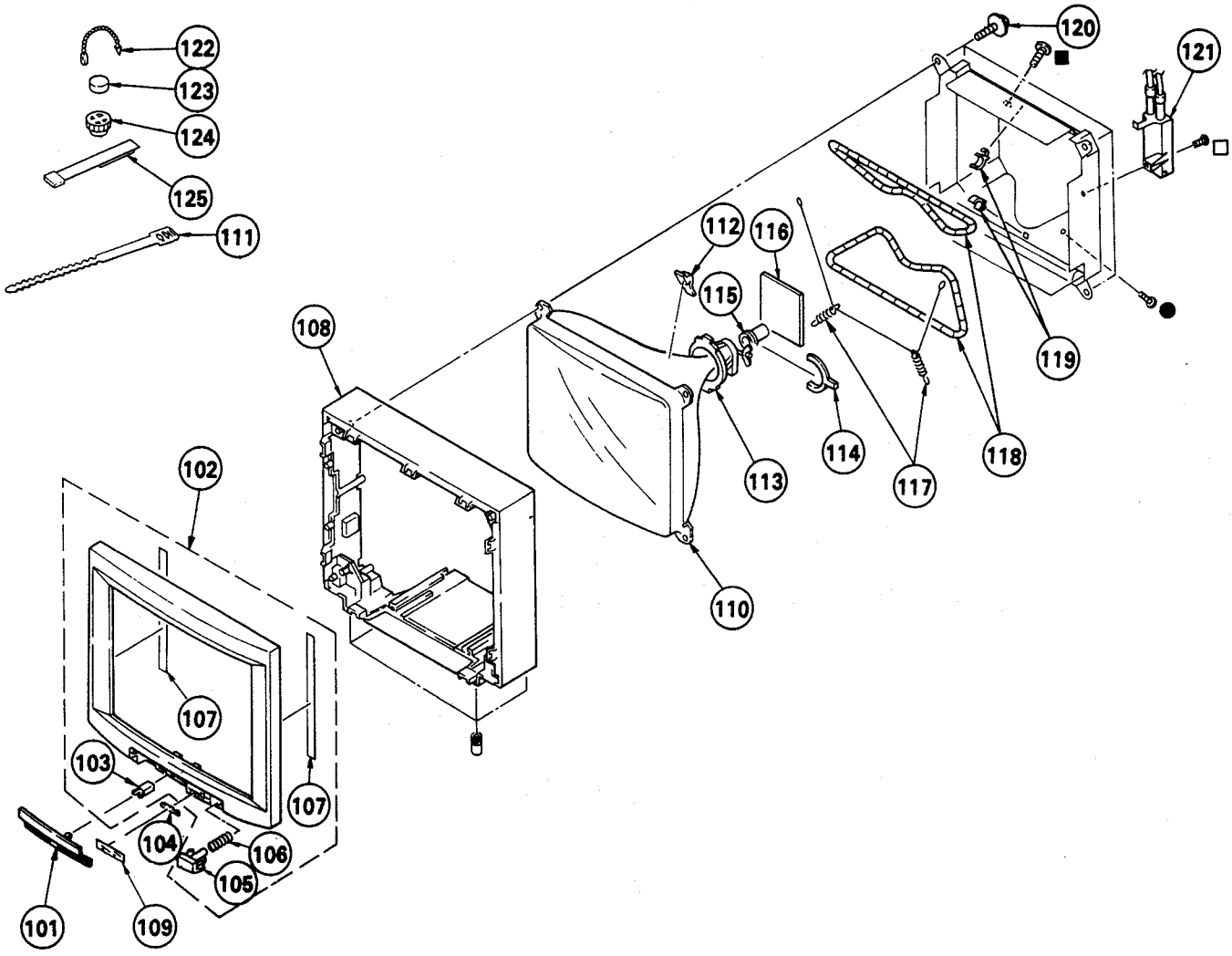


NO.	PART NO.	DESCRIPTION	REMARK
51	4-809-913-XX	FOOT, F	
52	*4-387-813-01	COVER, H2	
54	*4-389-208-01	GUIDE, LIGHT	
55	*1-625-202-11	H4 BOARD	
56	*1-625-205-11	J2 BOARD	
57	*1-625-201-11	H3 BOARD	
58	⚠1-571-410-11	SWITCH, PUSH (AC POWER) (1 KEY)	
59	*1-625-200-11	F2 BOARD	
60	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
61	*A-1345-764-A	D BOARD, COMPLETE	
62	4-386-618-01	RIVET, T TYPE	
63	*A-1296-532-A	A BOARD, COMPLETE	
64	⚠1-463-882-11	TUNER, ET (U-743)	
65	*4-386-629-11	BRACKET, A	
66	*4-386-628-11	SUPPORTER, PC BOARD	
67	*A-1347-030-A	V BOARD, COMPLETE	
68	*A-1135-508-A	B BOARD, COMPLETE	
69	*1-625-206-11	KS BOARD	
70	*4-386-617-01	HOLDER, TERMINAL	
71	*4-385-948-01	HOLDER, PCB	
72	⚠1-439-418-21	TRANSFORMER ASSY, FLYBACK	
73	*1-625-199-11	F1 BOARD	
74	*4-386-620-01	COVER, POWER	
75	⚠4-389-202-01	HOLDER, AC CORD	
76	⚠1-559-347-11	CORD, POWER (WITH CONNECTOR)	
77	*A-1341-047-A	D1 BOARD, COMPLETE	
78	*4-386-624-11	BRACKET, J	
79	*A-1371-419-A	J1 BOARD, COMPLETE	
80	X-4389-208-1	COVER ASSY, REAR	60
81	4-386-611-01	COVER, SWITCH	
82	*A-1296-523-A	A1 BOARD, COMPLETE	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-3. PICTURE TUBE

- ● *BVTP 3x12 7-685-648-79*
- □ *BVTP 4x16 7-685-663-79*
- ■ *BVTP 3x8 7-685-646-79*



NO.	PART NO.	DESCRIPTION	REMARK
101	4-389-203-41	DOOR, CONTROL	
102	X-4389-204-1	BEZEL ASSY	103,105,106,107
103	4-386-710-01	CATCHER, PUSH	
104	*4-389-208-01	GUIDE, LIGHT	
105	4-389-213-01	BUTTON, POWER	
106	4-389-207-01	SPRING, COMPRESSION	
107	4-386-645-01	CUSHION, PICTURE TUBE	
108	4-389-221-01	CABINET	
109	4-389-252-01	WINDOW, ORNAMENTAL	
110	⚠8-736-653-05	PICTURE TUBE (A64JKJ60X)	
111	3-701-007-00	BAND, BINDING	
112	3-703-003-00	SPACER, DY	
113	⚠1-451-255-42	DEFLECTION YOKE (SY-164)	

NO.	PART NO.	DESCRIPTION	REMARK
114	1-452-146-21	MAGNET, BMC	
115	⚠1-452-391-21	NECK ASSY, CRT (NA305)	
116	*A-1330-854-A	C BOARD, COMPLETE	
117	4-303-774-XX	SPRING	
118	⚠1-426-378-11	COIL, DEMAGNETIZATION	
119	*4-371-629-01	STOPPER, WIRE	
120	4-374-494-01	SCREW (L), PT	
121	⚠1-228-544-12	RESISTOR ASSY, HIGH-VOLTAGE	
122	4-308-870-00	CLIP, LEAD WIRE	
123	1-452-032-00	MAGNET, DISK; 10MM ϕ	
124	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
125	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

Note) In this parts list, the mounting diagram is for a different product.
Therefore, an excess of parts is listed.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1135-508-A	B BOARD, COMPLETE **********			
		<CAPACITOR>			
C301	1-106-228-00	MYLAR	0.22MF	10%	100V
C302	1-106-228-00	MYLAR	0.22MF	10%	100V
C303	1-126-101-11	ELECT	100MF	20%	16V
C304	1-106-228-00	MYLAR	0.22MF	10%	100V
C305	1-124-119-00	ELECT	330MF	20%	16V
C306	1-124-902-00	ELECT	0.47MF	20%	50V
C307	1-124-902-00	ELECT	0.47MF	20%	50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V
C309	1-124-902-00	ELECT	0.47MF	20%	50V
C310	1-106-220-00	MYLAR	0.1MF	10%	100V
C311	1-106-220-00	MYLAR	0.1MF	10%	100V
C312	1-124-902-00	ELECT	0.47MF	20%	50V
C313	1-124-902-00	ELECT	0.47MF	20%	50V
C314	1-124-902-00	ELECT	0.47MF	20%	50V
C315	1-124-499-11	ELECT	1MF	20%	50V
C319	1-124-477-11	ELECT	47MF	20%	16V
C322	1-101-888-00	CERAMIC	68PF	5%	50V
C325	1-124-477-11	ELECT	47MF	20%	16V
C326	1-101-004-00	CERAMIC	0.01MF		50V
C327	1-101-004-00	CERAMIC	0.01MF		50V
C331	1-101-004-00	CERAMIC	0.01MF		50V
C332	1-124-119-00	ELECT	330MF	20%	16V
C333	1-101-005-00	CERAMIC	0.022MF		50V
C335	1-101-006-00	CERAMIC	0.047MF		50V
C336	1-106-367-00	MYLAR	0.01MF	10%	400V
C337	1-101-004-00	CERAMIC	0.01MF		50V
C346	1-102-074-00	CERAMIC	0.001MF	10%	50V
C347	1-124-499-11	ELECT	1MF	20%	50V
C349	1-136-173-00	FILM	0.47MF	5%	50V
C350	1-106-383-00	MYLAR	0.047MF	10%	100V
C352	1-106-375-12	MYLAR	0.022MF	10%	250V
C360	1-101-004-00	CERAMIC	0.01MF		50V
C365	1-124-477-11	ELECT	47MF	20%	16V
C366	1-124-477-11	ELECT	47MF	20%	16V
C367	1-101-004-00	CERAMIC	0.01MF		50V
C368	1-101-880-00	CERAMIC	47PF	5%	50V
C369	1-101-361-00	CERAMIC	150PF	5%	50V
C381	1-124-902-00	ELECT	0.47MF	20%	50V
C382	1-124-927-11	ELECT	4.7MF	20%	50V
C384	1-124-477-11	ELECT	47MF	20%	16V
C385	1-124-927-11	ELECT	4.7MF	20%	50V
C386	1-124-927-11	ELECT	4.7MF	20%	50V
C387	1-124-902-00	ELECT	0.47MF	20%	50V
C1311	1-101-888-00	CERAMIC	68PF	5%	50V
C1313	1-102-965-00	CERAMIC	39PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION		REMARK
		<CONNECTOR>		
CNB31	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P		
CNB72	*1-564-895-11	PLUG, CONNECTOR 6P		
CNB73	*1-564-880-31	PLUG, CONNECTOR 3P		
CNB93	*1-560-278-41	PLUG, CONNECTOR 6P		
CNB95	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
		<COMPOSITION CIRCUIT BLOCK>		
CP302	1-232-096-00	COMPOSITION CIRCUIT BLOCK		
		<TRIMMER>		
CT332	1-141-181-11	CAP, TRIMMER		
		<DIODE>		
D301	8-719-911-19	DIODE 1SS119		
D302	8-719-911-19	DIODE 1SS119		
D303	8-719-911-19	DIODE 1SS119		
D304	8-719-911-19	DIODE 1SS119		
D305	8-719-911-19	DIODE 1SS119		
D307	8-719-110-23	DIODE RD11ES-B3		
D309	8-719-911-19	DIODE 1SS119		
		<DELAY LINE>		
DL331	1-415-122-00	DELAY LINE		
DL331	1-415-122-00	DELAY LINE		
		<IC>		
IC301	8-759-979-85	IC TDA4580-V4		
IC302	8-759-980-60	IC TDA8442-N3		
IC331	8-759-978-61	IC TDA4510/V6		
		<CONTROL MODULE, PICTURE>		
IC1301	1-235-534-11	CONTROL MODULE, PICTURE		
		<COIL>		
L301	1-410-868-21	INDUCTOR	4.7UH	
L302	1-410-868-21	INDUCTOR	4.7UH	
L304	1-410-470-11	INDUCTOR	10UH	
L331	1-408-408-00	INDUCTOR	8.2UH	
L332	1-404-539-11	COIL		
L339	1-410-868-21	INDUCTOR	4.7UH	
		<TRANSISTOR>		

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B F2 F1

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q302	8-729-178-54	TRANSISTOR 2SC2785	
Q303	8-729-178-54	TRANSISTOR 2SC2785	
Q305	8-729-900-36	TRANSISTOR DTC124ES	
Q306	8-729-178-54	TRANSISTOR 2SC2785	
Q311	8-729-178-54	TRANSISTOR 2SC2785	
Q312	8-729-178-54	TRANSISTOR 2SC2785	
Q313	8-729-178-54	TRANSISTOR 2SC2785	
Q316	8-729-178-54	TRANSISTOR 2SC2785	
Q334	8-729-178-54	TRANSISTOR 2SC2785	
Q381	8-729-900-36	TRANSISTOR DTC124ES	
Q382	8-729-178-54	TRANSISTOR 2SC2785	
Q1305	8-729-178-54	TRANSISTOR 2SC2785	
Q1306	8-729-117-54	TRANSISTOR 2SA1175	

<RESISTOR>

R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-409-11	CARBON	220	5%	1/4W
R304	1-249-409-11	CARBON	220	5%	1/4W
R305	1-249-421-11	CARBON	2.2K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-249-414-11	CARBON	560	5%	1/4W
R309	1-249-405-11	CARBON	100	5%	1/4W
R310	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-405-11	CARBON	100	5%	1/4W
R312	1-249-409-11	CARBON	220	5%	1/4W
R313	1-249-433-11	CARBON	22K	5%	1/4W
R314	1-249-413-11	CARBON	470	5%	1/4W
R315	1-249-407-11	CARBON	150	5%	1/4W
R316	1-249-407-11	CARBON	150	5%	1/4W
R317	1-249-407-11	CARBON	150	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-249-409-11	CARBON	220	5%	1/4W
R320	1-249-417-11	CARBON	1K	5%	1/4W
R321	1-249-421-11	CARBON	2.2K	5%	1/4W
R322	1-249-420-11	CARBON	1.8K	5%	1/4W
R323	1-249-421-11	CARBON	2.2K	5%	1/4W
R324	1-249-426-11	CARBON	5.6K	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-249-419-11	CARBON	1.5K	5%	1/4W
R327	1-249-427-11	CARBON	6.8K	5%	1/4W
R328	1-249-397-11	CARBON	22	5%	1/4W
R329	1-249-397-11	CARBON	22	5%	1/4W
R330	1-249-397-11	CARBON	22	5%	1/4W
R331	1-249-418-11	CARBON	1.2K	5%	1/4W
R333	1-249-412-11	CARBON	390	5%	1/4W
R334	1-249-408-11	CARBON	180	5%	1/4W
R337	1-247-848-11	CARBON	5.1K	5%	1/4W
R338	1-249-429-11	CARBON	10K	5%	1/4W
R345	1-249-437-11	CARBON	47K	5%	1/4W
R346	1-249-419-11	CARBON	1.5K	5%	1/4W
R347	1-249-429-11	CARBON	10K	5%	1/4W
R356	1-249-427-11	CARBON	6.8K	5%	1/4W
R357	1-249-409-11	CARBON	220	5%	1/4W
R358	1-249-409-11	CARBON	220	5%	1/4W
R361	1-249-418-11	CARBON	1.2K	5%	1/4W
R362	1-249-421-11	CARBON	2.2K	5%	1/4W
R363	1-249-418-11	CARBON	1.2K	5%	1/4W
R366	1-249-437-11	CARBON	47K	5%	1/4W
R367	1-249-409-11	CARBON	220	5%	1/4W
R368	1-249-417-11	CARBON	1K	5%	1/4W
R369	1-249-417-11	CARBON	1K	5%	1/4W
R376	1-249-429-11	CARBON	10K	5%	1/4W
R378	1-249-441-11	CARBON	100K	5%	1/4W
R379	1-249-441-11	CARBON	100K	5%	1/4W
R380	1-249-426-11	CARBON	5.6K	5%	1/4W
R381	1-249-439-11	CARBON	68K	5%	1/4W
R382	1-247-885-00	CARBON	180K	5%	1/4W
R383	1-247-893-11	CARBON	390K	5%	1/4W
R385	1-249-435-11	CARBON	33K	5%	1/4W
R386	1-249-423-11	CARBON	3.3K	5%	1/4W
R389	1-247-883-00	CARBON	150K	5%	1/4W
R391	1-249-404-00	CARBON	82	5%	1/4W
R392	1-249-402-11	CARBON	56	5%	1/4W
R393	1-249-402-11	CARBON	56	5%	1/4W
R394	1-249-402-11	CARBON	56	5%	1/4W
R398	1-249-433-11	CARBON	22K	5%	1/4W
R1301	1-249-425-11	CARBON	4.7K	5%	1/4W
R1302	1-249-437-11	CARBON	47K	5%	1/4W
R1303	1-249-437-11	CARBON	47K	5%	1/4W
R1304	1-249-441-11	CARBON	100K	5%	1/4W
R1324	1-249-419-11	CARBON	1.5K	5%	1/4W

<VARIABLE RESISTOR>

RV331	1-230-504-11	RES, ADJ, CARBON 220

<CRYSTAL>

X332	1-567-131-00	OSCILLATOR, CRYSTAL

<YC MODULE>

YCM301	1-235-753-21	YC MODULE

****

*1-625-200-11 F2 BOARD
****

<CONNECTOR>

CNF262	*1-566-664-11	PIN, CONNECTOR 4P

<SWITCH>

S1701⚠	1-571-410-11	SWITCH, PUSH (AC POWER) (1 KEY)

****

*1-625-199-11 F1 BOARD
****

<CAPACITOR>

C1601⚠	1-136-518-11	FILM	0.33MF	20%	300V
C1602⚠	1-136-519-11	FILM	0.47MF	20%	300V
C1603⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C1604⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C1605⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C1606⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C1607⚠	1-161-964-61	CERAMIC	0.0047MF		250V

<CONNECTOR>

CNF61	*1-566-664-11	PIN, CONNECTOR 4P

The components identifi
shading and mark ⚠ are
cal for safety.
Replace only with part nu
specified.

F 1 **A 1**

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNF64	*1-506-348-XX	PIN, CONNECTOR 3P	
CNF65	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CNF66	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CNF67	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
CNF162	*1-506-348-XX	PIN, CONNECTOR 4P	
		<FUSE>	
F1601⚠	1-532-350-11	FUSE, TIME-LAG 4A/250V	
	1-533-087-00	HOLDER, FUSE; F1601	
		<FILTER>	
LF1601⚠	1-421-866-12	LFT	
LF1602⚠	1-421-776-11	LFT	
LF1603⚠	1-421-592-11	TRANSFORMER, FERRITE	
		<RESISTOR>	
R1601⚠	1-215-192-81	METAL 47K 5% 1/4W	
R1602⚠	1-244-945-91	CARBON 1M 5% 1/2W	
R1603⚠	1-217-328-11	WIREWOUND 2.7 10% 7W F	
R1604⚠	1-215-192-81	METAL 47K 5% 1/4W	
R1605⚠	1-247-289-11	CARBON 8.2M 5% 1W	
		<THERMISTOR>	
THP601⚠	1-808-059-31	THERMISTOR, POSITIVE	
		**********	
	*A 1296-523-A	A1 BOARD, COMPLETE	
		**********	
		<FILTER>	
BP1101	1-236-238-11	FILTER, BAND PASS	
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	
LP1101	1-236-356-11	FILTER, LOW PASS	
LP1102	1-236-356-11	FILTER, LOW PASS	
		<CAPACITOR>	
C1110	1-106-220-00	MYLAR 0.1MF 10% 100V	
C1111	1-101-004-00	CERAMIC 0.01MF 50V	
C1112	1-124-477-11	ELECT 47MF 20% 16V	
C1113	1-123-875-11	ELECT 10MF 20% 50V	
C1114	1-130-469-00	MYLAR 680PF 5% 50V	
C1115	1-124-477-11	ELECT 47MF 20% 16V	
C1116	1-103-727-00	POLYSTYRENE 0.0012MF 5% 50V	
C1117	1-126-176-11	ELECT 220MF 20% 10V	
C1118	1-103-727-00	POLYSTYRENE 0.0012MF 5% 50V	
C1119	1-126-101-11	ELECT 100MF 20% 16V	
C1120	1-124-477-11	ELECT 47MF 20% 16V	
C1121	1-130-469-00	MYLAR 680PF 5% 50V	
C1122	1-124-477-11	ELECT 47MF 20% 16V	
C1123	1-102-949-00	CERAMIC 12PF 5% 50V	
C1124	1-102-949-00	CERAMIC 12PF 5% 50V	
C1125	1-124-477-11	ELECT 47MF 20% 16V	
C1126	1-124-477-11	ELECT 47MF 20% 16V	
C1127	1-124-477-11	ELECT 47MF 20% 16V	
C1128	1-124-477-11	ELECT 47MF 20% 16V	
C1130	1-124-477-11	ELECT 47MF 20% 16V	
C1131	1-124-477-11	ELECT 47MF 20% 16V	
C1132	1-124-477-11	ELECT 47MF 20% 16V	
C1133	1-124-477-11	ELECT 47MF 20% 16V	

REF.NO.	PART NO.	DESCRIPTION		
C1134	1-124-477-11	ELECT	47MF	20%
C1135	1-124-477-11	ELECT	47MF	20%
C1136	1-124-477-11	ELECT	47MF	20%
C1137	1-124-477-11	ELECT	47MF	20%
C1138	1-124-477-11	ELECT	47MF	20%
C1139	1-124-477-11	ELECT	47MF	20%
C1140	1-124-477-11	ELECT	47MF	20%
C1141	1-123-875-11	ELECT	10MF	20%
C1148	1-124-477-11	ELECT	47MF	20%
C1149	1-106-216-00	MYLAR	0.068MF	10%
C1150	1-106-349-00	MYLAR	0.0018MF	10%
C1151	1-108-792-11	MYLAR	0.001MF	10%
C1152	1-106-351-00	MYLAR	0.0022MF	10%
C1153	1-124-963-11	ELECT	33MF	20%
C1155	1-106-216-00	MYLAR	0.068MF	10%
C1156	1-106-349-00	MYLAR	0.0018MF	10%
C1157	1-108-792-11	MYLAR	0.001MF	10%
C1158	1-106-351-00	MYLAR	0.0022MF	10%
C1159	1-124-963-11	ELECT	33MF	20%
C1161	1-101-004-00	CERAMIC	0.01MF	
C1162	1-101-003-00	CERAMIC	0.0047MF	
C1163	1-101-004-00	CERAMIC	0.01MF	
C1164	1-101-004-00	CERAMIC	0.01MF	
C1165	1-101-004-00	CERAMIC	0.01MF	
C1166	1-124-963-11	ELECT	33MF	20%
C1167	1-124-902-00	ELECT	0.47MF	20%
C1168	1-124-902-00	ELECT	0.47MF	20%
C1169	1-101-004-00	CERAMIC	0.01MF	
C1170	1-102-953-00	CERAMIC	18PF	5%
C1171	1-101-884-00	CERAMIC	56PF	5%
C1172	1-102-953-00	CERAMIC	18PF	5%
C1173	1-124-902-00	ELECT	0.47MF	20%
C1174	1-101-004-00	CERAMIC	0.01MF	
C1175	1-101-004-00	CERAMIC	0.01MF	
C1176	1-101-004-00	CERAMIC	0.01MF	
C1177	1-106-220-00	MYLAR	0.1MF	10%
C1178	1-106-220-00	MYLAR	0.1MF	10%
C1179	1-102-961-00	CERAMIC	27PF	5%
C1180	1-102-961-00	CERAMIC	27PF	5%
C1181	1-106-220-00	MYLAR	0.1MF	10%
C1182	1-106-220-00	MYLAR	0.1MF	10%
C1183	1-101-004-00	CERAMIC	0.01MF	
C1184	1-101-004-00	CERAMIC	0.01MF	
C1185	1-124-902-00	ELECT	0.47MF	20%
C1186	1-102-953-00	CERAMIC	18PF	5%
C1187	1-101-884-00	CERAMIC	56PF	5%
C1188	1-102-953-00	CERAMIC	18PF	5%
C1189	1-102-953-00	CERAMIC	18PF	5%
C1190	1-102-953-00	CERAMIC	18PF	5%
C1191	1-102-953-00	CERAMIC	18PF	5%
C1192	1-101-004-00	CERAMIC	0.01MF	
C1193	1-124-963-11	ELECT	33MF	20%
C1194	1-101-888-00	CERAMIC	68PF	5%
		<CONNECTOR>		
CNA114	*1-564-880-31	PLUG, CONNECTOR 3P		
CNA116	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
CNA117	*1-564-886-21	PLUG, CONNECTOR 9P		
CNA118	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
CNA119	*1-564-881-11	PLUG, CONNECTOR 4P		
		<TRIMMER>		

REF.NO.	PART NO.	DESCRIPTION	REMARK
CV1101	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	
CV1102	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	
		<DIODE>	
D1101	8-719-911-19	DIODE 1SS119	
D1102	8-719-911-19	DIODE 1SS119	
D1103	8-719-000-04	DIODE MC911	
D1104	8-719-000-06	DIODE MC921	
D1105	8-719-000-04	DIODE MC911	
D1106	8-719-109-89	DIODE RD5.6ES-B2	
D1107	8-719-000-04	DIODE MC911	
D1108	8-719-000-04	DIODE MC911	
D1109	8-719-911-19	DIODE 1SS119	
D1110	8-719-911-19	DIODE 1SS119	
		<IC>	
IC1101	8-759-231-09	IC TA8662N	
IC1102	8-759-231-28	IC TC6011N	
IC1103	8-759-230-69	IC TC5563APL-12L	
IC1104	8-759-231-29	IC TD6710AN	
IC1105	8-759-900-72	IC NE5532P	
IC1106	8-759-900-72	IC NE5532P	
IC1107	8-759-240-49	IC TC4049BP	
IC1108	8-759-240-53	IC TC4053BP	
		<COIL>	
L1101	1-408-411-00	INDUCTOR 15UH	
L1102	1-410-118-11	INDUCTOR 0.82MMH	
L1103	1-410-118-11	INDUCTOR 0.82MMH	
L1104	1-408-429-00	INDUCTOR 470UH	
L1105	1-408-429-00	INDUCTOR 470UH	
L1108	1-408-411-00	INDUCTOR 15UH	
L1109	1-408-399-00	INDUCTOR 1.5UH	
		<TRANSISTOR>	
Q1101	8-729-178-54	TRANSISTOR 2SC2785	
Q1102	8-729-203-28	TRANSISTOR 2SC2216	
Q1103	8-729-178-54	TRANSISTOR 2SC2785	
Q1104	8-729-178-54	TRANSISTOR 2SC2785	
Q1109	8-729-177-32	TRANSISTOR 2SD773	
Q1110	8-729-900-89	TRANSISTOR DTC144ES	
Q1111	8-729-900-89	TRANSISTOR DTC144ES	
Q1112	8-729-900-89	TRANSISTOR DTC144ES	
Q1113	8-729-178-54	TRANSISTOR 2SC2785	
Q1114	8-729-178-54	TRANSISTOR 2SC2785	
Q1115	8-729-900-89	TRANSISTOR DTC144ES	
Q1116	8-729-178-54	TRANSISTOR 2SC2785	
Q1117	8-729-178-54	TRANSISTOR 2SC2785	
		<RESISTOR>	
R1101	1-249-411-11	CARBON 330 5% 1/4W	
R1102	1-249-417-11	CARBON 1K 5% 1/4W	
R1103	1-249-417-11	CARBON 1K 5% 1/4W	
R1104	1-249-403-11	CARBON 68 5% 1/4W	
R1105	1-249-417-11	CARBON 1K 5% 1/4W	
R1106	1-249-416-11	CARBON 820 5% 1/4W	
R1107	1-249-409-11	CARBON 220 5% 1/4W	
R1108	1-249-413-11	CARBON 470 5% 1/4W	
R1109	1-249-437-11	CARBON 47K 5% 1/4W	
R1110	1-249-437-11	CARBON 47K 5% 1/4W	
R1111	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1112	1-249-413-11	CARBON 470 5% 1/4W	
R1113	1-249-437-11	CARBON 47K 5% 1/4W	
R1114	1-249-437-11	CARBON 47K 5% 1/4W	
R1115	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1116	1-247-883-00	CARBON 150K 5% 1/4W	
R1117	1-247-887-00	CARBON 220K 5% 1/4W	
R1118	1-249-414-11	CARBON 560 5% 1/4W	
R1119	1-249-420-11	CARBON 1.8K 5% 1/4W	
R1120	1-249-417-11	CARBON 1K 5% 1/4W	
R1121	1-249-436-11	CARBON 39K 5% 1/4W	
R1122	1-249-436-11	CARBON 39K 5% 1/4W	
R1123	1-249-413-11	CARBON 470 5% 1/4W	
R1124	1-249-417-11	CARBON 1K 5% 1/4W	
R1127	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1128	1-249-437-11	CARBON 47K 5% 1/4W	
R1129	1-249-415-11	CARBON 680 5% 1/4W	
R1130	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1131	1-249-434-11	CARBON 27K 5% 1/4W	
R1132	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1133	1-249-434-11	CARBON 27K 5% 1/4W	
R1134	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1135	1-249-437-11	CARBON 47K 5% 1/4W	
R1136	1-249-415-11	CARBON 680 5% 1/4W	
R1137	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1138	1-249-434-11	CARBON 27K 5% 1/4W	
R1139	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1140	1-249-434-11	CARBON 27K 5% 1/4W	
R1147	1-249-441-11	CARBON 100K 5% 1/4W	
R1148	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1149	1-249-409-11	CARBON 220 5% 1/4W	
R1150	1-215-909-11	METAL OXIDE 47 5% 3W	F
R1151	1-249-429-11	CARBON 10K 5% 1/4W	
R1152	1-249-435-11	CARBON 33K 5% 1/4W	
R1153	1-249-435-11	CARBON 33K 5% 1/4W	
R1154	1-249-435-11	CARBON 33K 5% 1/4W	
R1155	1-249-435-11	CARBON 33K 5% 1/4W	
R1156	1-249-435-11	CARBON 33K 5% 1/4W	
R1157	1-249-435-11	CARBON 33K 5% 1/4W	
R1158	1-249-437-11	CARBON 47K 5% 1/4W	
R1159	1-249-437-11	CARBON 47K 5% 1/4W	
R1160	1-249-417-11	CARBON 1K 5% 1/4W	
R1161	1-249-429-11	CARBON 10K 5% 1/4W	
R1162	1-249-431-11	CARBON 15K 5% 1/4W	
R1163	1-249-433-11	CARBON 22K 5% 1/4W	
R1164	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1165	1-249-433-11	CARBON 22K 5% 1/4W	
R1166	1-249-433-11	CARBON 22K 5% 1/4W	
R1167	1-249-437-11	CARBON 47K 5% 1/4W	
R1168	1-249-441-11	CARBON 100K 5% 1/4W	
R1169	1-249-433-11	CARBON 22K 5% 1/4W	
R1170	1-249-409-11	CARBON 220 5% 1/4W	
R1171	1-249-409-11	CARBON 220 5% 1/4W	
R1172	1-249-409-11	CARBON 220 5% 1/4W	
R1173	1-249-439-11	CARBON 68K 5% 1/4W	
R1174	1-249-437-11	CARBON 47K 5% 1/4W	
R1175	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1176	1-249-405-11	CARBON 100 5% 1/4W	
R1177	1-249-437-11	CARBON 47K 5% 1/4W	
R1179	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1181	1-249-405-11	CARBON 100 5% 1/4W	
R1182	1-249-419-11	CARBON 1.5K 5% 1/4W	

A1 A

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1183	1-249-411-11	CARBON	330	5%	1/4W	
R1184	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1185	1-249-411-11	CARBON	330	5%	1/4W	
R1186	1-249-429-11	CARBON	10K	5%	1/4W	
R1187	1-249-431-11	CARBON	15K	5%	1/4W	
R1189	1-249-429-11	CARBON	10K	5%	1/4W	
R1190	1-249-431-11	CARBON	15K	5%	1/4W	
R1191	1-249-429-11	CARBON	10K	5%	1/4W	
R1192	1-249-429-11	CARBON	10K	5%	1/4W	
R1193	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1194	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1195	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1196	1-249-419-11	CARBON	1.5K	5%	1/4W	
		<CRYSTAL>				
X1101	1-577-251-11	VIBRATOR, CRYSTAL				
X1102	1-577-252-11	VIBRATOR, CRYSTAL				
X1103	1-577-253-11	VIBRATOR, CERAMIC				

****

*A-1296-532-A A BOARD, COMPLETE
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*4-380-698-01 CASE (MAIN), SHIELD, A1
*4-380-699-01 CASE (UPPER LID), SHIELD, A1
*4-382-701-01 CASE (BOTTOM LID), SHIELD, A2

<CAPACITOR>

C101	1-126-233-11	ELECT	22MF	20%	50V
C102	1-126-103-11	ELECT	470MF	20%	16V
C103	1-106-220-00	MYLAR	0.1MF	10%	100V
C104	1-106-216-00	MYLAR	0.068MF	10%	100V
C105	1-106-216-00	MYLAR	0.068MF	10%	100V
C107	1-102-963-00	CERAMIC	33PF	5%	50V
C108	1-124-963-11	ELECT	33MF	20%	16V
C109	1-101-003-00	CERAMIC	0.0047MF		50V
C110	1-124-499-11	ELECT	1MF	20%	50V
C111	1-101-003-00	CERAMIC	0.0047MF		50V
C112	1-101-003-00	CERAMIC	0.0047MF		50V
C113	1-101-003-00	CERAMIC	0.0047MF		50V
C114	1-124-963-11	ELECT	33MF	20%	16V
C118	1-101-880-00	CERAMIC	47PF	5%	50V
C119	1-126-101-11	ELECT	100MF	20%	16V
C120	1-124-925-11	ELECT	2.2MF	20%	50V
C121	1-101-003-00	CERAMIC	0.0047MF		50V
C122	1-101-003-00	CERAMIC	0.0047MF		50V
C123	1-101-003-00	CERAMIC	0.0047MF		50V
C124	1-101-888-00	CERAMIC	68PF	5%	50V
C125	1-101-888-00	CERAMIC	68PF	5%	50V
C127	1-101-003-00	CERAMIC	0.0047MF		50V
C128	1-124-963-11	ELECT	33MF	20%	16V
C129	1-101-888-00	CERAMIC	68PF	5%	50V
C130	1-101-004-00	CERAMIC	0.01MF		50V
C131	1-101-006-00	CERAMIC	0.047MF		50V
C133	1-101-003-00	CERAMIC	0.0047MF		50V
C134	1-124-499-11	ELECT	1MF	20%	50V
C158	1-124-963-11	ELECT	33MF	20%	16V
C159	1-124-477-11	ELECT	47MF	20%	16V
C161	1-124-477-11	ELECT	47MF	20%	16V
C186	1-101-004-00	CERAMIC	0.01MF		50V
C198	1-106-383-00	MYLAR	0.047MF	10%	100V

REF.NO.	PART NO.	DESCRIPTION
		<FILTER>
CD102	1-404-831-11	DISCRIMINATOR, CERAMIC
CF101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)
CF103	1-567-569-11	FILTER, CERAMIC
SWF101	1-577-159-11	SAWF
		<CONNECTOR>
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P
CNA16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
CNA17	*1-564-886-11	PLUG, CONNECTOR 9P
		<DIODE>
D105	8-719-109-92	DIODE RD6.2ES-B1
		<IC>
IC101	8-759-909-08	IC TDA3541
IC102	8-759-941-96	IC TDA2556
		<COIL>
L101	1-408-226-00	INDUCTOR 82UH
L102	1-410-116-11	INDUCTOR 0.56MMH
L103	1-408-406-00	INDUCTOR 5.6UH
L104	1-408-410-00	INDUCTOR 12UH
L106	1-408-415-00	INDUCTOR 33UH
L107	1-408-406-00	INDUCTOR 5.6UH
L108	1-408-412-00	INDUCTOR 18UH
		<TRANSISTOR>
Q105	8-729-178-54	TRANSISTOR 2SC2785
Q106	8-729-178-54	TRANSISTOR 2SC2785
Q107	8-729-117-54	TRANSISTOR 2SA1175
Q108	8-729-900-65	TRANSISTOR DTA144ES
Q112	8-729-178-54	TRANSISTOR 2SC2785
Q113	8-729-178-54	TRANSISTOR 2SC2785
Q115	8-729-178-54	TRANSISTOR 2SC2785
Q118	8-729-178-54	TRANSISTOR 2SC2785
Q119	8-729-178-54	TRANSISTOR 2SC2785
Q120	8-729-900-89	TRANSISTOR DTC144ES
		<RESISTOR>

R101	1-249-405-11	CARBON	100	5%	1/4W
R102	1-249-423-11	CARBON	3.3K	5%	1/4W
R103	1-249-433-11	CARBON	22K	5%	1/4W
R106	1-247-891-00	CARBON	330K	5%	1/4W
R107	1-249-421-11	CARBON	2.2K	5%	1/4W
R108	1-249-421-11	CARBON	2.2K	5%	1/4W
R109	1-249-423-11	CARBON	3.3K	5%	1/4W
R110	1-249-412-11	CARBON	390	5%	1/4W
R111	1-249-418-11	CARBON	1.2K	5%	1/4W
R112	1-249-421-11	CARBON	2.2K	5%	1/4W
R114	1-249-413-11	CARBON	470	5%	1/4W
R115	1-249-413-11	CARBON	470	5%	1/4W
R117	1-249-435-11	CARBON	33K	5%	1/4W
R118	1-249-429-11	CARBON	10K	5%	1/4W
R119	1-249-417-11	CARBON	1K	5%	1/4W
R121	1-249-429-11	CARBON	10K	5%	1/4W
R122	1-249-436-11	CARBON	39K	5%	1/4W
R124	1-249-423-11	CARBON	3.3K	5%	1/4W

A C

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R125	1-249-429-11	CARBON	10K	5%	1/4W	
R126	1-249-436-11	CARBON	39K	5%	1/4W	
R127	1-249-432-11	CARBON	18K	5%	1/4W	
R128	1-249-432-11	CARBON	18K	5%	1/4W	
R129	1-249-429-11	CARBON	10K	5%	1/4W	
R130	1-249-429-11	CARBON	10K	5%	1/4W	
R132	1-249-414-11	CARBON	560	5%	1/4W	
R134	1-249-414-11	CARBON	560	5%	1/4W	
R135	1-249-426-11	CARBON	5.6K	5%	1/4W	
R145	1-249-417-11	CARBON	1K	5%	1/4W	
R147	1-249-417-11	CARBON	1K	5%	1/4W	
R148	1-249-413-11	CARBON	470	5%	1/4W	
R150	1-249-423-11	CARBON	3.3K	5%	1/4W	
R151	1-249-423-11	CARBON	3.3K	5%	1/4W	
R165	1-249-423-11	CARBON	3.3K	5%	1/4W	
R171	1-249-417-11	CARBON	1K	5%	1/4W	
R177	1-249-417-11	CARBON	1K	5%	1/4W	
R190	1-249-417-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

RV101	1-237-753-11	RES, ADJ, CARBON 47K	

<COIL>

T101	1-404-493-00	COIL	
T102	1-404-493-00	COIL	
T103	1-404-493-00	COIL	

<TUNER>

TU101⚠	1-463-882-11	TUNER, ET (U-743)	

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*A-1330-854-A C BOARD, COMPLETE
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<CAPACITOR>

C703	1-102-980-00	CERAMIC	270PF	5%	50V
C704	1-102-116-00	CERAMIC	680PF	10%	50V
C705	1-102-978-00	CERAMIC	220PF	5%	50V
C706	1-102-116-00	CERAMIC	680PF	10%	50V
C709	1-102-116-00	CERAMIC	680PF	10%	50V
C710	1-123-947-00	ELECT	10MF	20%	250V
C711	1-101-880-00	CERAMIC	47PF	5%	50V
C712	1-102-980-00	CERAMIC	270PF	5%	50V
C714	1-124-360-00	ELECT	1000MF	20%	16V
C717	1-102-114-00	CERAMIC	470PF	10%	50V
C718	1-102-114-00	CERAMIC	470PF	10%	50V
C719	1-102-114-00	CERAMIC	470PF	10%	50V
C741	1-130-338-11	FILM	0.01MF	10%	630V
C742	1-162-116-00	CERAMIC	680PF	10%	2KV
C751	1-101-361-00	CERAMIC	150PF	5%	50V
C752	1-106-373-00	MYLAR	0.018MF	10%	250V
C753	1-106-367-00	MYLAR	0.01MF	10%	400V
C754	1-102-980-00	CERAMIC	270PF	5%	50V
C757	1-108-692-11	MYLAR	0.01MF	10%	200V
C759	1-123-875-11	ELECT	10MF	20%	50V
C760	1-124-917-11	ELECT	33MF	20%	50V
C761	1-101-006-00	CERAMIC	0.047MF		50V
C762	1-106-367-00	MYLAR	0.01MF	10%	400V

REF.NO.	PART NO.	DESCRIPTION	REMARK

<CONNECTOR>

CNC71	*1-506-348-XX	PIN, CONNECTOR 3P	
CNC72	*1-564-883-11	PLUG, CONNECTOR 6P	
CNC73	*1-564-880-31	PLUG, CONNECTOR 3P	
CNC75	*1-564-879-11	PLUG, CONNECTOR 2P	
CNC81	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)	
CNC82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CNC87	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	

<DIODE>

D701	8-719-110-14	DIODE RD9.1ES-B3	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-911-19	DIODE 1SS119	
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-911-19	DIODE 1SS119	
D708	8-719-911-19	DIODE 1SS119	
D709	8-719-911-19	DIODE 1SS119	
D710	8-719-911-19	DIODE 1SS119	
D711	8-719-924-06	DIODE ERC24-06S	
D713	8-719-911-19	DIODE 1SS119	

<JACK>

J701	1-526-644-51	SOCKET, PICTURE TUBE	

<COIL>

L704	1-410-878-21	INDUCTOR	33UH
L751	1-408-413-00	INDUCTOR	22UH

<TRANSISTOR>

Q702	8-729-178-54	TRANSISTOR 2SC2785	
Q703	8-729-326-11	TRANSISTOR 2SC2611	
	*4-386-664-01	SPRING; Q703	
Q704	8-729-200-17	TRANSISTOR 2SA1091	
Q705	8-729-178-54	TRANSISTOR 2SC2785	
Q706	8-729-326-11	TRANSISTOR 2SC2611	
	*4-386-664-01	SPRING; Q706	
Q707	8-729-200-17	TRANSISTOR 2SA1091	
Q708	8-729-178-54	TRANSISTOR 2SC2785	
Q709	8-729-326-11	TRANSISTOR 2SC2611	
	*4-386-664-01	SPRING; Q709	
Q710	8-729-200-17	TRANSISTOR 2SA1091	
Q751	8-729-178-54	TRANSISTOR 2SC2785	
Q752	8-729-178-54	TRANSISTOR 2SC2785	
Q753	8-729-103-43	TRANSISTOR 2SB734	
Q754	8-729-177-43	TRANSISTOR 2SD774	

<RESISTOR>

R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-249-412-11	CARBON	390	5%	1/4W	
R708	1-249-401-11	CARBON	47	5%	1/4W	
R710	1-215-465-00	METAL	68K	1%	1/6W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-471-00	METAL	120K	1%	1/6W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F

C D1

REF.NO.	PART NO.	DESCRIPTION				REMARK
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-249-409-11	CARBON	220	5%	1/4W	
R717	1-249-415-11	CARBON	680	5%	1/4W	
R719	1-249-401-11	CARBON	47	5%	1/4W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R729	1-249-416-11	CARBON	820	5%	1/4W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-249-415-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-215-493-00	METAL	1M	1%	1/6W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-481-00	METAL	330K	1%	1/6W	
R739	1-249-417-11	CARBON	1K	5%	1/4W	
R742	1-202-838-00	SOLID	100K	10%	1/2W	
R744	1-202-844-00	SOLID	330K	10%	1/2W	
R745	1-202-842-11	SOLID	220K	10%	1/2W	
R751	1-249-418-11	CARBON	1.2K	5%	1/4W	
R752	1-249-426-11	CARBON	5.6K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	
R754	1-249-434-11	CARBON	27K	5%	1/4W	
R755	1-249-405-11	CARBON	100	5%	1/4W	
R756	1-249-419-11	CARBON	1.5K	5%	1/4W	
R757	1-249-405-11	CARBON	100	5%	1/4W	
R758	1-249-409-11	CARBON	220	5%	1/4W	
R760	1-249-411-11	CARBON	330	5%	1/4W	
R761	1-249-429-11	CARBON	10K	5%	1/4W	
R762	1-247-895-00	CARBON	470K	5%	1/4W	
R763	1-249-429-11	CARBON	10K	5%	1/4W	
R764	1-249-455-11	CARBON	4.7	5%	1/4W	F
R765	1-249-455-11	CARBON	4.7	5%	1/4W	F
R766	1-247-753-11	CARBON	1.2K	5%	1/2W	
R767	1-247-751-11	CARBON	820	5%	1/2W	
R768	1-215-887-00	METAL OXIDE	150	5%	2W	F
R769	1-212-889-00	FUSIBLE	220	5%	1/4W	F
R770	1-212-869-00	FUSIBLE	33	5%	1/4W	F

<VARIABLE RESISTOR>

RV703	1-237-749-11	RES, ADJ, CARBON 2200
RV704	1-237-749-11	RES, ADJ, CARBON 2200
RV741	1-230-641-21	RES, ADJ, METAL GLAZE 2.2M

<SPARK GAP>

SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP

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*A-1341-047-A D1 BOARD, COMPLETE
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<CAPACITOR>

C5001	1-124-122-11	ELECT	100MF	20%	50V
C5002	1-124-122-11	ELECT	100MF	20%	50V
C5003	1-126-233-11	ELECT	22MF	20%	50V
C5004	1-102-030-00	CERAMIC	330PF	10%	500V
C5005	1-129-741-00	FILM	0.015MF	10%	4
C5006	1-124-342-00	ELECT	3.3MF	20%	1
C5007	1-126-101-11	ELECT	100MF	20%	1
C5008	1-102-157-00	CERAMIC	560PF	10%	5
C5009	1-108-619-11	MYLAR	0.0027MF	10%	1
C5010	1-124-963-11	ELECT	33MF	20%	1
C5011	1-108-702-11	MYLAR	0.068MF	10%	2
C5012	1-130-783-00	MYLAR	0.33MF	10%	1
C5013	1-124-934-11	ELECT	330MF	20%	1
C5014	1-131-349-00	TANTALUM	2.2MF	10%	3
C5016	1-106-383-00	MYLAR	0.047MF	10%	1
C5017	1-126-101-11	ELECT	100MF	20%	1
C5018	1-126-233-11	ELECT	22MF	20%	5
C5019	1-124-925-11	ELECT	2.2MF	20%	5
C5020	1-126-233-11	ELECT	22MF	20%	5
C5021	1-123-382-00	ELECT	3.3MF	20%	5
C5022	1-124-122-11	ELECT	100MF	20%	5
C5023	1-124-477-11	ELECT	47MF	20%	1
C5024	1-124-122-11	ELECT	100MF	20%	5
C5025	1-106-363-00	MYLAR	0.0068MF	10%	4
C5026	1-106-379-12	MYLAR	0.033MF	10%	2
C5027	1-106-218-00	MYLAR	0.082MF	10%	
C5028	1-123-875-11	ELECT	10MF	20%	
C5029	1-106-375-12	MYLAR	0.022MF	10%	2
C5030	1-106-361-00	MYLAR	0.0056MF	10%	
C5031	1-130-736-11	FILM	0.01MF	5%	
C5034	1-131-349-00	TANTALUM	2.2MF	10%	

<CONNECTOR>

CND185*1	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P
CND186*1	1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
CND187*1	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CND188*1	1-564-884-31	PLUG, CONNECTOR 7P

<DIODE>

D5001	8-719-930-11	DIODE EQB01-11
D5002	8-719-936-83	DIODE GP08DPKG23
D5003	8-719-936-83	DIODE GP08DPKG23
D5004	8-719-924-06	DIODE ERC24-06S
D5005	8-719-924-06	DIODE ERC24-06S
D5006	8-719-911-19	DIODE 1SS119
D5007	8-719-110-33	DIODE RD12ES-B3
D5008	8-719-911-19	DIODE 1SS119

<COIL>

L5001	1-459-074-00	COIL, DUST CORE 6.8MMH(HCC)	
L5002	1-408-245-00	INDUCTOR	22MMH
L5003	1-407-509-00	INDUCTOR	27MMH
L5004	1-407-504-00	INDUCTOR	10MMH
L5005	1-408-247-00	INDUCTOR	33MMH

<TRANSISTOR>

Q5001	8-729-117-54	TRANSISTOR 2SA1175
Q5002	8-729-117-54	TRANSISTOR 2SA1175
Q5003	8-729-195-82	TRANSISTOR 2SC2958-L
Q5004	8-729-122-03	TRANSISTOR 2SA1220A-P
	*4-386-664-01	SPRING; Q5004
Q5005	8-729-169-02	TRANSISTOR 2SC2690A-P
	*4-386-664-01	SPRING; Q5005
Q5008	8-729-177-32	TRANSISTOR 2SD773

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q5009	8-729-103-43	TRANSISTOR 2SB734				
Q5010	8-729-178-54	TRANSISTOR 2SC2785				
Q5011	8-729-195-82	TRANSISTOR 2SC2958-L				
		<RESISTOR>				
R5001	1-216-429-00	METAL OXIDE	270	5%	1W	
R5002	1-247-704-11	CARBON	220	5%	1/4W	F
R5003	1-249-399-11	CARBON	33	5%	1/4W	F
R5004	1-216-869-11	METAL OXIDE	1K	5%	1W	
R5005	1-249-395-11	CARBON	15	5%	1/4W	F
R5006	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R5007	1-216-440-00	METAL OXIDE	18K	5%	1W	
R5012	1-249-423-11	CARBON	3.3K	5%	1/4W	
R5013	1-249-429-11	CARBON	10K	5%	1/4W	
R5014	1-249-423-11	CARBON	3.3K	5%	1/4W	
R5015	1-249-421-11	CARBON	2.2K	5%	1/4W	
R5016	1-249-405-11	CARBON	100	5%	1/4W	F
R5017	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R5018	1-249-393-11	CARBON	10	5%	1/4W	F
R5019	1-249-439-11	CARBON	68K	5%	1/4W	
R5020	1-249-441-11	CARBON	100K	5%	1/4W	
R5021	1-249-429-11	CARBON	10K	5%	1/4W	
R5023	1-249-431-11	CARBON	15K	5%	1/4W	
R5025	1-215-868-00	METAL OXIDE	680	5%	1W	
R5027	1-249-434-11	CARBON	27K	5%	1/4W	
R5029	1-249-411-11	CARBON	330	5%	1/4W	
R5030	1-216-354-11	METAL OXIDE	2.7	5%	1W	F
R5032	1-215-908-00	METAL OXIDE	33	5%	3W	F
R5033	1-249-411-11	CARBON	330	5%	1/4W	
R5034	1-249-429-11	CARBON	10K	5%	1/4W	
R5035	1-249-429-11	CARBON	10K	5%	1/4W	
R5036	1-249-395-11	CARBON	15	5%	1/4W	
R5037	1-249-407-11	CARBON	150	5%	1/4W	
R5038	1-249-434-11	CARBON	27K	5%	1/4W	
R5039	1-216-451-11	METAL OXIDE	120	5%	2W	F
R5040	1-249-435-11	CARBON	33K	5%	1/4W	
R5041	1-249-414-11	CARBON	560	5%	1/4W	
R5042	1-249-435-11	CARBON	33K	5%	1/4W	
R5043	1-249-419-11	CARBON	1.5K	5%	1/4W	
R5044	1-249-421-11	CARBON	2.2K	5%	1/4W	
R5045	1-249-406-11	CARBON	120	5%	1/4W	
R5046	1-249-403-11	CARBON	68	5%	1/4W	
R5047	1-216-423-11	METAL OXIDE	27	5%	1W	
R5048	1-247-753-11	CARBON	1.2K	5%	1/2W	
R5049	1-215-865-11	METAL OXIDE	220	5%	1W	
R5056	1-249-411-11	CARBON	330	5%	1/4W	
		<VARIABLE RESISTOR>				
RV5002	1-230-504-11	RES, ADJ, CARBON 220				
RV5003	1-228-990-00	RES, ADJ, CARBON 1K				
RV5004	1-228-993-00	RES, ADJ, CARBON 4.7K				
RV5005	1-228-991-00	RES, ADJ, CARBON 2.2K				
RV5006	1-228-991-00	RES, ADJ, CARBON 2.2K				
RV5007	1-228-989-00	RES, ADJ, CARBON 470				
RV5008	1-228-999-00	RES, ADJ, CARBON 470K				
		<TRANSFORMER>				
T5001	1-413-059-00	TRANSFORMER, FERRITE (DFT)				

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REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1345-764-A	D BOARD, COMPLETE				
		**********				
	*4-341-751-01	EYELET				
	*4-341-752-01	EYELET				
		<CAPACITOR>				
C001	1-102-973-00	CERAMIC	100PF	5%	50V	
C003	1-106-220-00	MYLAR	0.1MF	10%	100V	
C004	1-123-875-11	ELECT	10MF	20%	50V	
C005	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C007	1-106-383-00	MYLAR	0.047MF	10%	100V	
C008	1-101-880-00	CERAMIC	47PF	5%	50V	
C009	1-101-884-00	CERAMIC	56PF	5%	50V	
C010	1-124-122-11	ELECT	100MF	20%	50V	
C011	1-101-004-00	CERAMIC	0.01MF		50V	
C012	1-124-122-11	ELECT	100MF	20%	50V	
C013	1-101-004-00	CERAMIC	0.01MF		50V	
C014	1-124-463-00	ELECT	0.1MF	20%	50V	
C015	1-124-910-11	ELECT	47MF	20%	50V	
C016	1-101-004-00	CERAMIC	0.01MF		50V	
C017	1-123-875-11	ELECT	10MF	20%	50V	
C018	1-102-980-00	CERAMIC	270PF	5%	50V	
C019	1-106-383-00	MYLAR	0.047MF	10%	100V	
C020	1-102-973-00	CERAMIC	100PF	5%	50V	
C021	1-102-973-00	CERAMIC	100PF	5%	50V	
C022	1-124-910-11	ELECT	47MF	20%	50V	
C023	1-124-499-11	ELECT	1MF	20%	50V	
C024	1-124-499-11	ELECT	1MF	20%	50V	
C025	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C026	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C027	1-106-220-00	MYLAR	0.1MF	10%	100V	
C028	1-101-361-00	CERAMIC	150PF	5%	50V	
C029	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C031	1-124-120-11	ELECT	220MF	20%	16V	
C032	1-102-978-00	CERAMIC	220PF	5%	50V	
C251	1-124-927-11	ELECT	4.7MF	20%	50V	
C252	1-124-927-11	ELECT	4.7MF	20%	50V	
C253	1-124-122-11	ELECT	100MF	20%	50V	
C254	1-124-927-11	ELECT	4.7MF	20%	50V	
C255	1-124-927-11	ELECT	4.7MF	20%	50V	
C256	1-106-220-00	MYLAR	0.1MF	10%	100V	
C257	1-101-004-00	CERAMIC	0.01MF		50V	
C258	1-106-220-00	MYLAR	0.1MF	10%	100V	
C260	1-106-220-00	MYLAR	0.1MF	10%	100V	
C265	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C266	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C401	1-124-910-11	ELECT	47MF	20%	50V	
C403	1-124-910-11	ELECT	47MF	20%	50V	
C501	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-927-11	ELECT	4.7MF	20%	50V	
C503	1-106-371-00	MYLAR	0.015MF	10%	400V	
C504	1-101-361-00	CERAMIC	150PF	5%	50V	
C505	1-108-794-11	MYLAR	0.0015MF	5%	50V	
C506	1-106-375-12	MYLAR	0.022MF	10%	250V	
C507	1-130-783-00	MYLAR	0.33MF	10%	100V	
C508	1-106-375-12	MYLAR	0.022MF	10%	250V	
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	
C510	1-161-959-00	CERAMIC	22PF	10%	500V	
C511	1-108-620-11	MYLAR	0.0033MF	10%	100V	
C512	1-106-220-00	MYLAR	0.1MF	10%	100V	
C513	1-108-614-11	MYLAR	0.001MF	10%	100V	
C514	1-106-228-00	MYLAR	0.22MF	10%	100V	

D

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C515	1-124-499-11	ELECT	1MF	20%	50V
C516	1-108-614-11	MYLAR	0.001MF	10%	100V
C517	1-124-252-00	ELECT	0.33MF	20%	50V
C518	1-124-902-00	ELECT	0.47MF	20%	50V
C519	1-136-173-00	FILM	0.47MF	5%	50V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C521	1-106-220-00	MYLAR	0.1MF	10%	100V
C524	1-108-798-11	MYLAR	0.0033MF	5%	50V
C525	1-102-973-00	CERAMIC	100PF	5%	50V
C526	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C534	1-124-120-11	ELECT	220MF	20%	16V
C537	1-124-499-11	ELECT	1MF	20%	50V
C538	1-108-614-11	MYLAR	0.001MF	10%	100V
C539	1-102-820-00	CERAMIC	330PF	5%	50V
C549	1-123-875-11	ELECT	10MF	20%	50V
C591	1-123-875-11	ELECT	10MF	20%	50V
C592	1-124-910-11	ELECT	47MF	20%	50V
C593	1-102-820-00	CERAMIC	330PF	5%	50V
C601	1-162-599-12	CERAMIC	0.0047MF		250V
C602	1-162-599-12	CERAMIC	0.0047MF		250V
C603	1-162-599-12	CERAMIC	0.0047MF		250V
C604	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V
C605	1-124-122-11	ELECT	100MF	20%	50V
C606	1-106-220-00	MYLAR	0.1MF	10%	100V
C607	1-130-019-00	FILM	0.0012MF	5%	50V
C608	1-123-875-11	ELECT	10MF	20%	50V
C611	1-124-122-11	ELECT	100MF	20%	50V
C612	1-162-115-00	CERAMIC	330PF	10%	2KV
C613	1-136-539-11	FILM	0.0022MF	3%	2KV
C614	1-102-030-00	CERAMIC	330PF	10%	500V
C615	1-124-557-11	ELECT	1000MF	20%	25V
C616	1-102-030-00	CERAMIC	330PF	10%	500V
C618	1-124-637-11	ELECT	1000MF	20%	50V
C619	1-124-556-11	ELECT	2200MF	20%	16V
C620	1-102-074-00	CERAMIC	0.001MF	10%	50V
C621	1-124-347-00	ELECT	100MF	20%	160V
C622	1-124-556-11	ELECT	2200MF	20%	16V
C623	1-124-910-11	ELECT	47MF	20%	50V
C624	1-124-122-11	ELECT	100MF	20%	50V
C625	1-124-360-00	ELECT	1000MF	20%	16V
C626	1-123-875-11	ELECT	10MF	20%	50V
C627	1-102-074-00	CERAMIC	0.001MF	10%	50V
C631	1-123-875-11	ELECT	10MF	20%	50V
C632	1-102-074-00	CERAMIC	0.001MF	10%	50V
C633	1-124-927-11	ELECT	4.7MF	20%	50V
C636	1-123-382-00	ELECT	3.3MF	20%	50V
C801	1-124-913-11	ELECT	470MF	20%	50V
C802	1-102-030-00	CERAMIC	330PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-106-220-00	MYLAR	0.1MF	10%	100V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-124-494-00	ELECT	33MF		160V
C811	1-136-113-00	FILM	2MF	5%	200V
C812	1-124-634-11	ELECT	1MF	20%	250V
C813	1-102-212-00	CERAMIC	820PF	10%	500V
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C815	1-136-569-11	FILM	1.2MF	5%	200V
C817	1-136-735-11	FILM	0.019MF	3%	1.4KV
C818	1-129-721-00	FILM	0.039MF	10%	630V
C819 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C820	1-106-218-00	MYLAR	0.0082MF	10%	400V
C821 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C822	1-102-114-00	CERAMIC	470PF	10%	50V
C823	1-106-359-00	MYLAR	0.0047MF	10%	400V
C824	1-102-212-00	CERAMIC	820PF	10%	500V
C825	1-106-375-12	MYLAR	0.022MF	10%	250V
C826	1-123-875-11	ELECT	10MF	20%	50V

<FILTER>

CF001	1-567-686-11	OSCILLATOR, CERAMIC
CF501	1-567-888-11	OSCILLATOR, CERAMIC

<CONNECTOR>

CN801	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
CND01	*1-564-884-11	PLUG, CONNECTOR 7P
CND02	*1-564-886-11	PLUG, CONNECTOR 9P
CND11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P
CND12	*1-564-884-11	PLUG, CONNECTOR 7P
CND18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
CND19	*1-564-881-11	PLUG, CONNECTOR 4P
CND21	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P
CND23	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)
CND31	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P
CND41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CND45	*1-564-882-11	PLUG, CONNECTOR 5P
CND51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CND64	*1-506-348-XX	PIN, CONNECTOR 3P
CND82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
CND83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CND84	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
CND86	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P
CND88	*1-564-884-31	PLUG, CONNECTOR 7P
CND91	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
CND92	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
CND94	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)

<DIODE>

D001	8-719-911-19	DIODE 1SS119
D002	8-719-911-19	DIODE 1SS119
D003	8-719-911-19	DIODE 1SS119
D004	8-719-911-19	DIODE 1SS119
D005	8-719-109-71	DIODE RD3.9ES-B1
D007	8-719-109-89	DIODE RD5.6ES-B2
D008	8-719-110-85	DIODE RD36ES-B4
D009	8-719-109-89	DIODE RD5.6ES-B2
D011	8-719-911-19	DIODE 1SS119
D012	8-719-911-19	DIODE 1SS119
D254	8-719-110-14	DIODE RD9.1ES-B3
D255	8-719-000-12	DIODE MC931
D256	8-719-000-12	DIODE MC931
D501	8-719-911-19	DIODE 1SS119
D506	8-719-000-12	DIODE MC931
D508	8-719-911-19	DIODE 1SS119
D591	8-719-911-19	DIODE 1SS119
D592	8-719-911-19	DIODE 1SS119
D593	8-719-911-19	DIODE 1SS119
D601	8-719-946-90	DIODE KBU4JL-6088
D602	8-719-924-06	DIODE ERC24-06S
D603	8-719-936-83	DIODE GP08DPKG23
D604	8-719-936-83	DIODE GP08DPKG23
D605	8-719-936-83	DIODE GP08DPKG23
D606	8-719-924-06	DIODE ERC24-06S
D607	8-719-924-06	DIODE ERC24-06S

The components identified by shading and mark ⚠ are critical for safety.
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REF.NO.	PART NO.	DESCRIPTION	REMARK
D608	8-719-925-06	DIODE ERC25-06S	
D610	8-719-300-59	DIODE CTU-12S	
D611	8-719-900-26	DIODE ERD29-08J	
D612	8-719-300-59	DIODE CTU-12S	
D613	8-719-924-06	DIODE ERC24-06S	
D614	8-719-924-06	DIODE ERC24-06S	
D615	8-719-109-90	DIODE RD5.6ES-B3	
D616	8-719-109-93	DIODE RD6.2ES-B2	
D618	8-719-109-89	DIODE RD5.6ES-B2	
D620	8-719-000-12	DIODE MC931	
D622	8-719-911-19	DIODE 1SS119	
D623	8-719-911-19	DIODE 1SS119	
D624	8-719-911-19	DIODE 1SS119	
D627	8-719-911-19	DIODE 1SS119	
D632	8-719-110-16	DIODE RD10ES-B1	
D633	8-719-911-19	DIODE 1SS119	
D801	8-719-924-06	DIODE ERC24-06S	
D802	8-719-924-06	DIODE ERC24-06S	
D803	8-719-300-65	DIODE ES1F	
D804	8-719-936-83	DIODE GP08DPKG23	
D805	8-719-936-83	DIODE GP08DPKG23	
D806	8-719-945-80	DIODE ERC06-15S	
D807	8-719-945-80	DIODE ERC06-15S	
D808	8-719-900-26	DIODE ERD29-08J	
D809	8-719-901-58	DIODE RGP15JPKG23	

<IC>

IC001	8-759-630-06	IC M50436-614SP	
IC002	8-759-979-57	IC MB88503H-1022G	
IC003	8-759-603-41	IC M58655P	
IC004	8-759-157-40	IC UPC574J	
IC251	8-759-803-31	IC LA4280	
	*4-368-683-01	SPRING; IC251	
IC401	8-752-006-10	IC CX20061	
IC501	8-759-970-73	IC TEA2028B	
IC601	8-759-946-23	IC TEA2164	
	*4-386-642-01	HEAT SINK, IC; IC601	
IC608	8-759-700-06	IC UPC7812H	

<COIL>

L001	1-408-414-00	INDUCTOR 27UH	
L601	*1-420-872-00	COIL, AIR CORE	
L602	1-410-396-41	FERRITE BEAD INDUCTOR	
L603	1-410-396-41	FERRITE BEAD INDUCTOR	
L605	1-459-442-00	COIL (WITH CORE)	
L606	1-421-013-00	COIL, (HOLIZONTAL CHOKE) 25UH	
L607	1-408-421-00	INDUCTOR 100UH	
L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-239-00	INDUCTOR 4.7MMH	
L805 ⚠	1-459-224-13	COIL, HORIZONTAL LINEARITY	
L806	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	
L807	1-407-504-00	INDUCTOR 10MMH	
L809	*1-420-872-00	COIL, AIR CORE	
L810	1-421-982-11	PMC	

<IC LINK>

PS601 ⚠	1-532-984-91	LINK, IC 2A	
PS602 ⚠	1-532-675-91	LINK, IC 1.5A	

<TRANSISTOR>

Q001	8-729-600-32	TRANSISTOR 2SC403SP-51	
Q002	8-729-117-54	TRANSISTOR 2SA1175	
Q003	8-729-117-54	TRANSISTOR 2SA1175	
Q004	8-729-117-54	TRANSISTOR 2SA1175	
Q252	8-729-900-36	TRANSISTOR DTC124ES	
Q501	8-729-117-54	TRANSISTOR 2SA1175	
Q502	8-729-117-54	TRANSISTOR 2SA1175	
Q503	8-729-178-54	TRANSISTOR 2SC2785	
Q505	8-729-177-43	TRANSISTOR 2SD774	
Q506	8-729-103-43	TRANSISTOR 2SB734	
Q507	8-729-117-54	TRANSISTOR 2SA1175	
Q591	8-729-178-54	TRANSISTOR 2SC2785	
Q598	8-729-178-54	TRANSISTOR 2SC2785	
Q601	8-729-904-32	TRANSISTOR 2SB1185-E	
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	
	*4-368-683-01	SPRING; Q602	
Q603	8-729-904-32	TRANSISTOR 2SB1185-E	
Q604	8-729-378-91	TRANSISTOR 2SD789-3	
Q605	8-729-178-54	TRANSISTOR 2SC2785	
Q606	8-729-178-54	TRANSISTOR 2SC2785	
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q608	*4-368-683-01	SPRING	
Q609	8-729-378-91	TRANSISTOR 2SD789-3	
Q801	8-729-178-54	TRANSISTOR 2SC2785	
Q804	8-729-304-50	TRANSISTOR 2SD1941-06	
	*4-368-683-01	SPRING; Q804	
Q805	8-729-119-80	TRANSISTOR 2SC2688-L	

<RESISTOR>

R001	1-249-417-11	CARBON	1K	5%	1/4W
R002	1-249-417-11	CARBON	1K	5%	1/4W
R003	1-249-417-11	CARBON	1K	5%	1/4W
R004	1-249-417-11	CARBON	1K	5%	1/4W
R005	1-249-411-11	CARBON	330	5%	1/4W
R006	1-249-417-11	CARBON	1K	5%	1/4W
R007	1-249-405-11	CARBON	100	5%	1/4W
R008	1-249-417-11	CARBON	1K	5%	1/4W
R009	1-249-417-11	CARBON	1K	5%	1/4W
R010	1-249-413-11	CARBON	470	5%	1/4W
R011	1-249-417-11	CARBON	1K	5%	1/4W
R012	1-249-417-11	CARBON	1K	5%	1/4W
R013	1-249-417-11	CARBON	1K	5%	1/4W
R014	1-249-417-11	CARBON	1K	5%	1/4W
R016	1-249-429-11	CARBON	10K	5%	1/4W
R017	1-249-417-11	CARBON	1K	5%	1/4W
R018	1-249-417-11	CARBON	1K	5%	1/4W
R019	1-249-433-11	CARBON	22K	5%	1/4W
R020	1-249-433-11	CARBON	22K	5%	1/4W
R021	1-249-433-11	CARBON	22K	5%	1/4W
R022	1-249-433-11	CARBON	22K	5%	1/4W
R023	1-249-429-11	CARBON	10K	5%	1/4W
R024	1-249-429-11	CARBON	10K	5%	1/4W
R025	1-249-417-11	CARBON	1K	5%	1/4W
R026	1-249-417-11	CARBON	1K	5%	1/4W
R027	1-249-417-11	CARBON	1K	5%	1/4W
R028	1-249-417-11	CARBON	1K	5%	1/4W
R029	1-249-417-11	CARBON	1K	5%	1/4W
R030	1-249-425-11	CARBON	4.7K	5%	1/4W
R031	1-249-429-11	CARBON	10K	5%	1/4W
R032	1-249-417-11	CARBON	1K	5%	1/4W
R033	1-249-413-11	CARBON	470	5%	1/4W
R034	1-249-413-11	CARBON	470	5%	1/4W
R035	1-249-431-11	CARBON	15K	5%	1/4W
R036	1-249-421-11	CARBON	2.2K	5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R037	1-249-417-11	CARBON	1K	5%	1/4W	
R038	1-249-417-11	CARBON	1K	5%	1/4W	
R039	1-249-417-11	CARBON	1K	5%	1/4W	
R040	1-249-417-11	CARBON	1K	5%	1/4W	
R041	1-249-417-11	CARBON	1K	5%	1/4W	
R042	1-249-417-11	CARBON	1K	5%	1/4W	
R043	1-249-417-11	CARBON	1K	5%	1/4W	
R044	1-249-429-11	CARBON	10K	5%	1/4W	
R045	1-249-417-11	CARBON	1K	5%	1/4W	
R046	1-249-429-11	CARBON	10K	5%	1/4W	
R047	1-249-409-11	CARBON	220	5%	1/4W	
R048	1-249-417-11	CARBON	1K	5%	1/4W	
R049	1-249-417-11	CARBON	1K	5%	1/4W	
R050	1-249-433-11	CARBON	22K	5%	1/4W	
R051	1-249-429-11	CARBON	10K	5%	1/4W	
R052	1-249-439-11	CARBON	68K	5%	1/4W	
R053	1-249-437-11	CARBON	47K	5%	1/4W	
R054	1-249-417-11	CARBON	1K	5%	1/4W	
R056	1-249-440-11	CARBON	82K	5%	1/4W	
R057	1-249-409-11	CARBON	220	5%	1/4W	
R058	1-249-409-11	CARBON	220	5%	1/4W	
R059	1-249-437-11	CARBON	47K	5%	1/4W	
R060	1-249-437-11	CARBON	47K	5%	1/4W	
R061	1-249-417-11	CARBON	1K	5%	1/4W	
R062	1-249-411-11	CARBON	330	5%	1/4W	
R063	1-249-431-11	CARBON	15K	5%	1/4W	
R064	1-249-429-11	CARBON	10K	5%	1/4W	
R067	1-249-413-11	CARBON	470	5%	1/4W	
R068	1-249-421-11	CARBON	2.2K	5%	1/4W	
R069	1-249-423-11	CARBON	3.3K	5%	1/4W	
R070	1-249-417-11	CARBON	1K	5%	1/4W	
R071	1-249-417-11	CARBON	1K	5%	1/4W	
R072	1-249-417-11	CARBON	1K	5%	1/4W	
R073	1-249-417-11	CARBON	1K	5%	1/4W	
R074	1-249-417-11	CARBON	1K	5%	1/4W	
R075	1-249-417-11	CARBON	1K	5%	1/4W	
R077	1-249-413-11	CARBON	470	5%	1/4W	
R078	1-249-423-11	CARBON	3.3K	5%	1/4W	
R079	1-249-435-11	CARBON	33K	5%	1/4W	
R080	1-249-429-11	CARBON	10K	5%	1/4W	
R081	1-249-441-11	CARBON	100K	5%	1/4W	
R082	1-249-409-11	CARBON	220	5%	1/4W	
R083	1-249-429-11	CARBON	10K	5%	1/4W	
R084	1-249-413-11	CARBON	470	5%	1/4W	
R085	1-249-429-11	CARBON	10K	5%	1/4W	
R086	1-249-417-11	CARBON	1K	5%	1/4W	
R087	1-249-417-11	CARBON	1K	5%	1/4W	
R088	1-249-425-11	CARBON	4.7K	5%	1/4W	
R090	1-249-413-11	CARBON	470	5%	1/4W	
R091	1-249-409-11	CARBON	220	5%	1/4W	
R093	1-249-429-11	CARBON	10K	5%	1/4W	
R094	1-249-429-11	CARBON	10K	5%	1/4W	
R095	1-249-409-11	CARBON	220	5%	1/4W	
R096	1-249-409-11	CARBON	220	5%	1/4W	
R097	1-249-429-11	CARBON	10K	5%	1/4W	
R098	1-249-429-11	CARBON	10K	5%	1/4W	
R099	1-215-900-11	METAL OXIDE	22K	5%	2W	F
R251	1-249-417-11	CARBON	1K	5%	1/4W	
R252	1-249-413-11	CARBON	470	5%	1/4W	
R253	1-249-413-11	CARBON	470	5%	1/4W	
R255	1-249-385-11	CARBON	2.2	5%	1/4W	F
R256	1-249-385-11	CARBON	2.2	5%	1/4W	F
R260	1-249-393-11	CARBON	10	5%	1/4W	
R261	1-249-429-11	CARBON	10K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R262	1-249-413-11	CARBON	470	5%	1/4W	
R263	1-249-421-11	CARBON	2.2K	5%	1/4W	
R264	1-249-421-11	CARBON	2.2K	5%	1/4W	
R265	1-249-425-11	CARBON	4.7K	5%	1/4W	
R266	1-249-425-11	CARBON	4.7K	5%	1/4W	
R401	1-249-434-11	CARBON	27K	5%	1/4W	
R402	1-249-435-11	CARBON	33K	5%	1/4W	
R410	1-249-413-11	CARBON	470	5%	1/4W	
R411	1-249-413-11	CARBON	470	5%	1/4W	
R412	1-249-413-11	CARBON	470	5%	1/4W	
R500	1-247-897-11	CARBON	560K	5%	1/4W	
R501	1-249-413-11	CARBON	470	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W	
R503	1-249-410-11	CARBON	270	5%	1/4W	
R504	1-215-427-00	METAL	1.8K	1%	1/6W	
R505	1-249-431-11	CARBON	15K	5%	1/4W	
R506	1-249-428-11	CARBON	8.2K	5%	1/4W	
R507	1-247-891-00	CARBON	330K	5%	1/4W	
R509	1-249-424-11	CARBON	3.9K	5%	1/4W	
R510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R511	1-249-429-11	CARBON	10K	5%	1/4W	
R512	1-247-891-00	CARBON	330K	5%	1/4W	
R513	1-249-429-11	CARBON	10K	5%	1/4W	
R514	1-249-409-11	CARBON	220	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W	
R516	1-249-408-11	CARBON	180	5%	1/4W	
R517	1-249-429-11	CARBON	10K	5%	1/4W	
R518	1-249-437-11	CARBON	47K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R520	1-249-411-11	CARBON	330	5%	1/4W	
R521	1-249-405-11	CARBON	100	5%	1/4W	
R522	1-215-469-00	METAL	100K	1%	1/6W	
R523	1-249-417-11	CARBON	1K	5%	1/4W	
R524	1-249-421-11	CARBON	2.2K	5%	1/4W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	
R528	1-249-408-11	CARBON	180	5%	1/4W	
R529	1-249-427-11	CARBON	6.8K	5%	1/4W	
R530	1-247-695-11	CARBON	39	5%	1/4W	F
R534	1-247-901-11	CARBON	820K	5%	1/4W	
R536	1-249-749-00	CARBON	2.2M	5%	1/4W	
R538	1-247-883-00	CARBON	150K	5%	1/4W	
R539	1-247-883-00	CARBON	150K	5%	1/4W	
R540	1-249-399-11	CARBON	33	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-425-11	CARBON	4.7K	5%	1/4W	
R546	1-249-434-11	CARBON	27K	5%	1/4W	
R549	1-215-890-11	METAL OXIDE	470	5%	2W	F
R550	1-249-440-11	CARBON	82K	5%	1/4W	
R551	1-249-749-00	CARBON	2.2M	5%	1/4W	
R552	1-216-433-00	METAL OXIDE	1.2K	5%	1W	
R553	1-216-869-11	METAL OXIDE	1K	5%	1W	
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-749-00	CARBON	2.2M	5%	1/4W	
R556	1-249-405-11	CARBON	100	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R558	1-247-895-00	CARBON	470K	5%	1/4W	
R559	1-249-427-11	CARBON	6.8K	5%	1/4W	
R560	1-249-411-11	CARBON	330	5%	1/4W	
R591	1-249-427-11	CARBON	6.8K	5%	1/4W	
R592	1-249-429-11	CARBON	10K	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	
R594	1-249-424-11	CARBON	3.9K	5%	1/4W	
R595	1-249-417-11	CARBON	1K	5%	1/4W	

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Fax (01844) 352554

D V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R596	1-249-425-11	CARBON	4.7K	5%	1/4W	
R597	1-249-425-11	CARBON	4.7K	5%	1/4W	
R598	1-249-405-11	CARBON	100	5%	1/4W	
R599	1-249-405-11	CARBON	100	5%	1/4W	
R602	1-216-465-11	METAL OXIDE	27K	5%	2W	F
R603	1-216-359-00	METAL OXIDE	6.8	5%	1W	F
R604	1-249-414-11	CARBON	560	5%	1/4W	
R605	1-215-469-00	METAL	100K	1%	1/6W	
R606	1-247-850-11	CARBON	6.2K	5%	1/4W	
R607	1-249-434-11	CARBON	27K	5%	1/4W	
R608	1-216-490-11	METAL OXIDE	39K	5%	3W	F
R609	1-249-401-11	CARBON	47	5%	1/4W	
R610	1-249-385-11	CARBON	2.2	5%	1/4W	F
R611	1-249-385-11	CARBON	2.2	5%	1/4W	F
R612	1-207-905-00	WIREWOUND	0.27	10%	2W	F
R613	1-249-401-11	CARBON	47	5%	1/4W	
R614	1-205-758-11	WIREWOUND	100	10%	10W	F
R616	1-249-417-11	CARBON	1K	5%	1/4W	
R617	1-249-411-11	CARBON	330	5%	1/4W	
R618	1-216-431-11	METAL OXIDE	560	5%	1W	
R619	1-249-429-11	CARBON	10K	5%	1/4W	
R620	1-249-433-11	CARBON	22K	5%	1/4W	
R621	1-249-431-11	CARBON	15K	5%	1/4W	
R622	1-249-429-11	CARBON	10K	5%	1/4W	
R623	1-249-377-11	CARBON	0.47	5%	1/4W	F
R624	1-249-411-11	CARBON	330	5%	1/4W	
R625	1-215-865-11	METAL OXIDE	220	5%	1W	
R626	1-249-411-11	CARBON	330	5%	1/4W	
R628	1-249-393-11	CARBON	10	5%	1/4W	
R629	1-249-411-11	CARBON	330	5%	1/4W	
R630	1-249-437-11	CARBON	47K	5%	1/4W	
R633	1-249-405-11	CARBON	100	5%	1/4W	
R634	1-216-430-11	METAL OXIDE	390	5%	1W	
R635	1-249-429-11	CARBON	10K	5%	1/4W	
R636	1-249-429-11	CARBON	10K	5%	1/4W	
R642	1-216-343-00	METAL OXIDE	0.33	5%	1W	F
R643	1-217-192-21	WIREWOUND	0.22	10%	2W	F
R647	1-216-485-11	METAL OXIDE	5.6K	5%	3W	F
R648	1-216-485-11	METAL OXIDE	5.6K	5%	3W	F
R649	1-249-385-11	CARBON	2.2	5%	1/4W	
R650	1-249-417-11	CARBON	1K	5%	1/4W	
R651	1-249-405-11	CARBON	100	5%	1/4W	
R652	1-247-903-00	CARBON	1M	5%	1/4W	
R653	1-205-758-11	WIREWOUND	100	10%	10W	F
R802	1-249-443-11	CARBON	0.47	5%	1/4W	F
R805	1-249-448-11	CARBON	1.2	5%	1/4W	F
R806	1-249-439-11	CARBON	68K	5%	1/4W	
R807	1-216-869-11	METAL OXIDE	1K	5%	1W	
R809	1-202-821-11	SOLID	1.8K	10%	1/2W	
R810	1-202-818-00	SOLID	1K	10%	1/2W	
R811	1-215-882-00	METAL OXIDE	22	5%	2W	F
R812	1-249-494-11	CARBON	68K	5%	1/2W	
R815	1-215-884-11	METAL OXIDE	47	5%	2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F
R825	1-216-342-11	METAL OXIDE	0.27	5%	1W	F
R826	1-249-441-11	CARBON	100K	5%	1/4W	
R827	1-249-429-11	CARBON	10K	5%	1/4W	
R828	1-249-423-11	CARBON	3.3K	5%	1/4W	
R829	1-249-415-11	CARBON	680	5%	1/4W	
R830	1-249-429-11	CARBON	10K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R831	1-249-451-11	CARBON	2.2	5%	1/4W	
R1001	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1005	1-249-408-11	CARBON	180	5%	1/4W	
R1006	1-249-408-11	CARBON	180	5%	1/4W	
R1007	1-249-408-11	CARBON	180	5%	1/4W	
R1008	1-249-409-11	CARBON	220	5%	1/4W	
R1009	1-249-417-11	CARBON	1K	5%	1/4W	
R1011	1-249-413-11	CARBON	470	5%	1/4W	
R1012	1-249-405-11	CARBON	100	5%	1/4W	
R5501	1-249-429-11	CARBON	10K	5%	1/4W	
R5502	1-249-417-11	CARBON	1K	5%	1/4W	
R5503	1-249-389-11	CARBON	4.7	5%	1/4W	
R5504	1-247-903-00	CARBON	1M	5%	1/4W	

<VARIABLE RESISTOR>

RV501	1-228-991-00	RES, ADJ, CARBON	2.2K
RV502	1-228-994-00	RES, ADJ, CARBON	10K
RV601	1-228-991-00	RES, ADJ, CARBON	2.2K

<SPARK GAP>

SG801	1-519-063-XX	DISCHARGING GAP

<TRANSFORMER>

T601 ⚠	1-448-961-21	S.R.T
T602 ⚠	1-424-011-12	TRANSFORMER, PULSE
T801 ⚠	1-437-090-21	HDT

<TERMINAL PIN>

TP91	*1-535-084-00	1P TERMINAL PIN

****

*A-1347-030-A V BOARD, COMPLETE
****

*4-380-698-01 CASE (MAIN), SHIELD, A1
*4-380-699-01 CASE (UPPER LID), SHIELD, A1
*4-382-701-01 CASE (BOTTOM LID), SHIELD, A2

<CAPACITOR>

C01	1-126-101-11	ELECT	100MF	20%	16V
C02	1-124-120-11	ELECT	220MF	20%	16V
C03	1-124-119-00	ELECT	330MF	20%	16V
C04	1-124-477-11	ELECT	47MF	20%	16V
C05	1-126-101-11	ELECT	100MF	20%	16V
C06	1-124-120-11	ELECT	220MF	20%	16V
C07	1-124-499-11	ELECT	1MF	20%	50V
C08	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C09	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C10	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C11	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C12	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C13	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C14	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C15	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C18	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C20	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C21	1-163-833-00	CERAMIC CHIP	0.068MF		25V
C24	1-126-101-11	ELECT	100MF	20%	16V
C25	1-124-477-11	ELECT	47MF	20%	16V

V J2

REF.NO.	PART NO.	DESCRIPTION		REMARK
C27	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	
C28	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	
C29	1-124-927-11	ELECT 4.7MF	20% 50V	
C51	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C52	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C53	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C54	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C55	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C56	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C57	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	
C58	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	
C59	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	
		<CONNECTOR>		
CNV03	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		
		<TRIMMER>		
CT01	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)		
		<DIODE>		
D01	8-719-400-47	DIODE MA3056M		
D02	8-719-400-95	DIODE MA3130L		
D03	8-719-914-43	DIODE DAN202K		
D04	8-719-420-42	DIODE MA3036H		
D07	8-719-400-63	DIODE MA3068M		
D08	8-719-400-63	DIODE MA3068M		
D09	8-719-914-43	DIODE DAN202K		
D10	8-719-914-43	DIODE DAN202K		
D11	8-719-914-44	DIODE DAP202K		
D12	8-719-914-44	DIODE DAP202K		
		<IC>		
IC1	8-759-972-41	IC MAB8461P-W136		
IC2	8-759-972-96	IC SAA5231-V6		
IC3	8-759-946-85	IC SAA5243E		
IC4	8-759-230-68	IC TMM2063P-70		
		<COIL>		
L01	1-408-411-00	INDUCTOR 15UH		
L02	1-408-407-00	INDUCTOR 6.8UH		
L03	1-408-407-00	INDUCTOR 6.8UH		
L04	1-408-407-00	INDUCTOR 6.8UH		
L05	1-408-407-00	INDUCTOR 6.8UH		
L06	1-408-407-00	INDUCTOR 6.8UH		
		<TRANSISTOR>		
Q01	8-729-904-27	TRANSISTOR 2SD1761-E		
Q02	8-729-202-06	TRANSISTOR 2SC2873Y		
Q03	8-729-900-53	TRANSISTOR DTC114EK		
Q04	8-729-271-22	TRANSISTOR 2SC2712G		
Q05	8-729-202-06	TRANSISTOR 2SC2873Y		
Q06	8-729-271-22	TRANSISTOR 2SC2712G		
Q07	8-729-900-98	TRANSISTOR DTC143TK		
Q09	8-729-800-68	TRANSISTOR 2SB815B6		
Q10	8-729-800-68	TRANSISTOR 2SB815B6		
Q11	8-729-800-68	TRANSISTOR 2SB815B6		
		<RESISTOR>		
R01	1-218-326-11	METAL GLAZE 470	1/2W	
R04	1-218-326-11	METAL GLAZE 470	1/2W	
R05	1-216-025-00	METAL GLAZE 100	5% 1/10W	
R07	1-216-025-00	METAL GLAZE 100	5% 1/10W	
R08	1-216-037-00	METAL GLAZE 330	5% 1/10W	
R09	1-216-091-00	METAL GLAZE 56K	5% 1/10W	
R13	1-216-025-00	METAL GLAZE 100	5% 1/10W	
R14	1-216-025-00	METAL GLAZE 100	5% 1/10W	
R15	1-216-121-00	METAL GLAZE 1M	5% 1/10W	
R16	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	
R19	1-216-037-00	METAL GLAZE 330	5% 1/10W	
R20	1-216-043-00	METAL GLAZE 560	5% 1/10W	
R27	1-216-013-00	METAL GLAZE 33	5% 1/10W	
R28	1-216-013-00	METAL GLAZE 33	5% 1/10W	
R29	1-216-013-00	METAL GLAZE 33	5% 1/10W	
R30	1-218-325-11	METAL GLAZE 120	1/4W	
R31	1-218-325-11	METAL GLAZE 120	1/4W	
R32	1-218-325-11	METAL GLAZE 120	1/4W	
R33	1-216-023-00	METAL GLAZE 82	5% 1/10W	
R37	1-216-025-00	METAL GLAZE 100	5% 1/10W	
R38	1-216-047-00	METAL GLAZE 820	5% 1/10W	
R41	1-216-041-00	METAL GLAZE 470	5% 1/10W	
R44	1-216-041-00	METAL GLAZE 470	5% 1/10W	
R46	1-216-311-00	METAL GLAZE 6.8	5% 1/10W	
R55	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R59	1-216-056-00	METAL GLAZE 2K	5% 1/10W	
R60	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W	
R61	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	
		<VARIABLE RESISTOR>		
RV01	1-238-009-11	RES, ADJ, CARBON 220		
		<CONNECTOR>		
V1	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		
V2	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		
V3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		
V4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		
V5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
		<CRYSTAL>		
X01	1-567-162-21	OSCILLATOR, CRYSTAL		
X02	1-567-495-21	OSCILLATOR, CRYSTAL		
X03	1-577-082-11	VIBRATOR, CERAMIC		

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*1-625-205-11 J2 BOARD
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		<CAPACITOR>		
C1401	1-126-105-11	ELECT 1000MF	20% 35V	
C1402	1-126-105-11	ELECT 1000MF	20% 35V	
		<CONNECTOR>		
CNJ23	*1-564-893-11	PLUG, CONNECTOR 4P		
CNJ242	*1-564-893-11	PLUG, CONNECTOR 4P		
		<JACK>		

J2 H3 H4 J1

REF.NO.	PART NO.	DESCRIPTION	REMARK
J1401	1-507-806-00	JACK	
		<RESISTOR>	
R1401	1-247-708-11	METAL 470 5% 1/4W	
R1402	1-247-708-11	METAL 470 5% 1/4W	
		**********	
	*1-625-201-11	H3 BOARD	
		********	
		<CONNECTOR>	
CNH302	*1-564-898-11	PLUG, CONNECTOR 9P	
CNH303	*1-564-892-41	PLUG, CONNECTOR 3P	
		<DIODE>	
D1405	8-719-812-41	DIODE TLR124	
	*4-348-208-00	HOLDER, LED; D1405	
		<SWITCH>	
S1401	1-571-085-21	SWITCH, TACTICLE	
S1402	1-571-085-21	SWITCH, TACTICLE	
S1403	1-571-085-21	SWITCH, TACTICLE	
S1404	1-571-085-21	SWITCH, TACTICLE	
S1405	1-571-085-21	SWITCH, TACTICLE	
S1406	1-571-085-21	SWITCH, TACTICLE	
S1407	1-571-085-21	SWITCH, TACTICLE	
S1408	1-571-085-21	SWITCH, TACTICLE	
S1409	1-571-085-21	SWITCH, TACTICLE	
S1410	1-571-085-21	SWITCH, TACTICLE	
S1411	1-571-085-21	SWITCH, TACTICLE	
S1412	1-571-085-21	SWITCH, TACTICLE	
S1414	1-571-085-21	SWITCH, TACTICLE	
		**********	
	*1-625-202-11	H4 BOARD	
		********	
	*4-374-987-01	GUIDE, LIGHT	
	*4-387-825-01	HOLDER, LED	
	*4-388-955-01	BRACKET (B), LIGHT GUIDE	
		<CONNECTOR>	
CNH401	*1-564-884-11	PLUG, CONNECTOR 7P	
CNH403	*1-564-880-31	PLUG, CONNECTOR 3P	
		<DIODE>	
D1401	8-719-915-45	DIODE SLP162B	
	*4-387-801-01	HOLDER, LED; D1401	
D1402	8-719-915-45	DIODE SLP162B	
	*4-387-801-01	HOLDER, LED; D1402	
D1403	8-719-915-45	DIODE SLP162B	
	*4-387-801-01	HOLDER, LED; D1403	
D1404	8-719-948-31	DIODE LD-201VR	
		<IC>	
IC1401	8-749-901-33	IC SBX1483-11	

REF.NO.	PART NO.	DESCRIPTION			REMARK
		**********			
	*A-1371-419-A	J1 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1401	1-123-875-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-102-112-00	CERAMIC	330PF	10%	50V
C1404	1-124-902-00	ELECT	0.47MF	20%	50V
C1405	1-101-003-00	CERAMIC	0.0047MF		50V
C1406	1-124-902-00	ELECT	0.47MF	20%	50V
C1407	1-124-477-11	ELECT	47MF	20%	16V
C1408	1-126-101-11	ELECT	100MF	20%	16V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-123-875-11	ELECT	10MF	20%	50V
C1411	1-123-875-11	ELECT	10MF	20%	50V
C1412	1-124-477-11	ELECT	47MF	20%	16V
C1413	1-124-477-11	ELECT	47MF	20%	16V
C1414	1-123-875-11	ELECT	10MF	20%	50V
C1415	1-124-902-00	ELECT	0.47MF	20%	50V
C1416	1-124-902-00	ELECT	0.47MF	20%	50V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-102-112-00	CERAMIC	330PF	10%	50V
C1419	1-102-112-00	CERAMIC	330PF	10%	50V
C1421	1-124-477-11	ELECT	47MF	20%	16V
C1423	1-106-375-12	MYLAR	0.022MF	10%	250V
C1424	1-106-375-12	MYLAR	0.022MF	10%	250V
C1425	1-124-902-00	ELECT	0.47MF	20%	50V
C1426	1-124-902-00	ELECT	0.47MF	20%	50V
C1427	1-101-003-00	CERAMIC	0.0047MF		50V
C1428	1-101-003-00	CERAMIC	0.0047MF		50V
C1429	1-101-003-00	CERAMIC	0.0047MF		50V
C1430	1-102-112-00	CERAMIC	330PF	10%	50V
C1431	1-124-902-00	ELECT	0.47MF	20%	50V
C1432	1-124-902-00	ELECT	0.47MF	20%	50V
C1433	1-126-101-11	ELECT	100MF	20%	16V
C1436	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1437	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1501	1-123-875-11	ELECT	10MF	20%	50V
C1502	1-123-875-11	ELECT	10MF	20%	50V
C1503	1-108-614-11	MYLAR	0.001MF	10%	100V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-108-620-11	MYLAR	0.0033MF	10%	100V
C1508	1-124-499-11	ELECT	1MF	20%	50V
C1509	1-124-499-11	ELECT	1MF	20%	50V
C1511	1-123-875-11	ELECT	10MF	20%	50V
C1512	1-106-363-00	MYLAR	0.0068MF	10%	400V
C1513	1-102-963-00	CERAMIC	33PF	5%	50V
C1514	1-106-353-00	MYLAR	0.027MF	10%	250V
C1515	1-102-117-00	CERAMIC	820PF	10%	50V
C1551	1-102-973-00	CERAMIC	100PF	10%	50V
C1552	1-124-122-11	ELECT	100MF	20%	50V
		<CONNECTOR>			
CN1401	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT			
CN1402	1-561-534-41	SOCKET 21P			
CN1403	1-561-534-41	SOCKET 21P			
CNJ25	*1-564-892-41	PLUG, CONNECTOR 3P			
CNJ41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
CNJ43	*1-564-893-11	PLUG, CONNECTOR 4P			

J1

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNJ45	*1-564-894-11	PLUG, CONNECTOR 5P	
CNJ51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CNJ67	*1-560-721-21	PLUG, CONNECTOR 2P	
CNJ142	*1-564-893-11	PLUG, CONNECTOR 4P	
		<DIODE>	
D1401	8-719-110-04	DIODE RD7.5ES-B3	
D1403	8-719-110-04	DIODE RD7.5ES-B3	
D1404	8-719-110-04	DIODE RD7.5ES-B3	
D1405	8-719-110-04	DIODE RD7.5ES-B3	
D1406	8-719-110-04	DIODE RD7.5ES-B3	
D1407	8-719-110-18	DIODE RD10ES-B3	
D1408	8-719-110-14	DIODE RD9.1ES-B3	
D1409	8-719-110-04	DIODE RD7.5ES-B3	
D1410	8-719-110-04	DIODE RD7.5ES-B3	
D1415	8-719-110-04	DIODE RD7.5ES-B3	
D1418	8-719-110-04	DIODE RD7.5ES-B3	
D1419	8-719-110-04	DIODE RD7.5ES-B3	
D1420	8-719-110-04	DIODE RD7.5ES-B3	
D1501	8-719-912-20	DIODE 1SS120	
D1502	8-719-911-19	DIODE 1SS119	
D1504	8-719-911-19	DIODE 1SS119	
D1505	8-719-000-12	DIODE MC931	
D1506	8-719-110-85	DIODE RD36ES-B4	
D1507	8-719-911-19	DIODE 1SS119	
D1509	8-719-911-19	DIODE 1SS119	
D1551	8-719-110-64	DIODE RD24ES-B4	
D1552	8-719-924-06	DIODE ERC24-06S	
		<IC>	
IC1401	8-752-032-27	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A	
IC1501	8-759-942-16	IC TEA2031A	
		<COIL>	
L1401	1-412-043-11	INDUCTOR, WIDE BAND	
L1402	1-412-043-11	INDUCTOR, WIDE BAND	
		<TRANSISTOR>	
Q1401	8-729-117-54	TRANSISTOR 2SA1175	
Q1402	8-729-117-54	TRANSISTOR 2SA1175	
Q1551	8-729-178-54	TRANSISTOR 2SC2785	
Q1552	8-729-177-43	TRANSISTOR 2SD774	
		<RESISTOR>	
R1401	1-249-404-00	CARBON 82 5% 1/4W	
R1402	1-247-698-11	METAL 68 5% 1/4W	
R1403	1-249-437-11	CARBON 47K 5% 1/4W	
R1404	1-249-413-11	CARBON 470 5% 1/4W	
R1405	1-249-429-11	CARBON 10K 5% 1/4W	
R1407	1-247-895-00	CARBON 470K 5% 1/4W	
R1408	1-249-434-11	CARBON 27K 5% 1/4W	
R1409	1-249-413-11	CARBON 470 5% 1/4W	
R1410	1-249-434-11	CARBON 27K 5% 1/4W	
R1411	1-249-413-11	CARBON 470 5% 1/4W	
R1412	1-249-437-11	CARBON 47K 5% 1/4W	
R1413	1-247-895-00	CARBON 470K 5% 1/4W	
R1414	1-249-437-11	CARBON 47K 5% 1/4W	
R1415	1-249-434-11	CARBON 27K 5% 1/4W	
R1416	1-249-434-11	CARBON 27K 5% 1/4W	
R1417	1-249-404-00	CARBON 82 5% 1/4W	
R1418	1-247-738-11	CARBON 82 5% 1/2W	F
R1419	1-249-409-11	CARBON 220 5% 1/4W	
R1420	1-249-409-11	CARBON 220 5% 1/4W	
R1422	1-249-417-11	CARBON 1K 5% 1/4W	
R1423	1-249-434-11	CARBON 27K 5% 1/4W	
R1424	1-249-434-11	CARBON 27K 5% 1/4W	
R1425	1-249-417-11	CARBON 1K 5% 1/4W	
R1426	1-249-417-11	CARBON 1K 5% 1/4W	
R1427	1-249-417-11	CARBON 1K 5% 1/4W	
R1428	1-247-895-00	CARBON 470K 5% 1/4W	
R1429	1-247-895-00	CARBON 470K 5% 1/4W	
R1430	1-247-699-11	METAL 82 5% 1/4W	
R1433	1-249-409-11	CARBON 220 5% 1/4W	
R1434	1-249-393-11	CARBON 10 5% 1/4W	F
R1437	1-249-429-11	CARBON 10K 5% 1/4W	
R1440	1-249-415-11	CARBON 680 5% 1/4W	
R1441	1-249-415-11	CARBON 680 5% 1/4W	
R1442	1-249-437-11	CARBON 47K 5% 1/4W	
R1443	1-249-437-11	CARBON 47K 5% 1/4W	
R1444	1-249-409-11	CARBON 220 5% 1/4W	
R1445	1-249-440-11	CARBON 82K 5% 1/4W	
R1447	1-249-409-11	CARBON 220 5% 1/4W	
R1448	1-249-409-11	CARBON 220 5% 1/4W	
R1450	1-249-413-11	CARBON 470 5% 1/4W	
R1451	1-249-413-11	CARBON 470 5% 1/4W	
R1452	1-249-412-11	CARBON 390 5% 1/4W	
R1453	1-249-412-11	CARBON 390 5% 1/4W	
R1454	1-247-703-11	METAL 180 5% 1/4W	
R1455	1-247-703-11	METAL 180 5% 1/4W	
R1456	1-249-405-11	CARBON 100 5% 1/4W	
R1501	1-249-433-11	CARBON 22K 5% 1/4W	
R1502	1-249-434-11	CARBON 27K 5% 1/4W	
R1503	1-247-895-00	CARBON 470K 5% 1/4W	
R1504	1-249-435-11	CARBON 33K 5% 1/4W	
R1505	1-249-433-11	CARBON 22K 5% 1/4W	
R1506	1-247-895-00	CARBON 470K 5% 1/4W	
R1509	1-249-436-11	CARBON 39K 5% 1/4W	
R1510	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1511	1-249-419-11	CARBON 1.5K 5% 1/4W	
R1512	1-249-429-11	CARBON 10K 5% 1/4W	
R1513	1-249-438-11	CARBON 56K 5% 1/4W	
R1514	1-249-417-11	CARBON 1K 5% 1/4W	
R1515	1-247-899-11	CARBON 680K 5% 1/4W	
R1516	1-249-432-11	CARBON 18K 5% 1/4W	
R1518	1-249-429-11	CARBON 10K 5% 1/4W	
R1519	1-247-883-00	CARBON 150K 5% 1/4W	
R1520	1-247-895-00	CARBON 470K 5% 1/4W	
R1521	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1522	1-247-887-00	CARBON 220K 5% 1/4W	
R1551	1-215-870-11	METAL OXIDE 1.5K 5% 1W	F
R1552	1-249-433-11	CARBON 22K 5% 1/4W	
R1553	1-216-434-11	METAL OXIDE 1.8K 5% 1W	F
R1554	1-249-411-11	CARBON 330 5% 1/4W	
R1556	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1558	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1559	1-249-441-11	CARBON 100K 5% 1/4W	
		<VARIABLE RESISTOR>	
RV1501	1-228-999-00	RES, ADJ, CARBON 470K	
RV1502	1-224-252-XX	RES, ADJ, METAL GLAZE 10K	
RV1503	1-228-995-00	RES, ADJ, CARBON 22K	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

J1 **Ks**

REF.NO.	PART NO.	DESCRIPTION				REMARK
RV1504	1-228-990-00	RES, ADJ, CARBON 1K				
RV1505	1-228-998-00	RES, ADJ, CARBON 220K				
RV1506	1-228-995-00	RES, ADJ, CARBON 22K				
RV1508	1-228-994-00	RES, ADJ, CARBON 10K				
RV1509	1-228-999-00	RES, ADJ, CARBON 470K				

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*1-625-206-11 KS BOARD
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<CAPACITOR>

C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-124-477-11	ELECT	47MF	20%	16V
C204	1-124-902-00	ELECT	0.47MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-124-477-11	ELECT	47MF	20%	16V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V
C214	1-106-363-00	MYLAR	0.0068MF	10%	400V
C217	1-106-363-00	MYLAR	0.0068MF	10%	400V
C218	1-106-375-12	MYLAR	0.022MF	10%	250V
C219	1-106-375-12	MYLAR	0.022MF	10%	250V
C220	1-108-620-11	MYLAR	0.0033MF	10%	100V
C221	1-108-620-11	MYLAR	0.0033MF	10%	100V
C222	1-106-375-12	MYLAR	0.022MF	10%	250V
C223	1-106-375-12	MYLAR	0.022MF	10%	250V
C224	1-106-367-00	MYLAR	0.01MF	10%	400V
C225	1-136-173-00	FILM	0.47MF	5%	50V
C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-106-375-12	MYLAR	0.022MF	10%	250V
C228	1-106-379-12	MYLAR	0.033MF	10%	250V
C229	1-106-371-00	MYLAR	0.015MF	10%	400V
C230	1-106-371-00	MYLAR	0.015MF	10%	400V
C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-123-875-11	ELECT	10MF	20%	50V
C233	1-102-114-00	CERAMIC	470PF	10%	50V
C234	1-102-114-00	CERAMIC	470PF	10%	50V
C235	1-102-114-00	CERAMIC	470PF	10%	50V
C236	1-102-114-00	CERAMIC	470PF	10%	50V
C237	1-124-902-00	ELECT	0.47MF	20%	50V
C238	1-102-978-00	CERAMIC	220PF	5%	50V
C239	1-126-103-11	ELECT	470MF	20%	16V

<CONNECTOR>

CNK21	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P
CNK25	*1-564-880-31	PLUG, CONNECTOR 3P

<DIODE>

D201	8-719-110-14	DIODE RD9.1ES-B3
D202	8-719-110-14	DIODE RD9.1ES-B3
D205	8-719-110-04	DIODE RD7.5ES-B3
D206	8-719-110-04	DIODE RD7.5ES-B3

<IC>

IC201	8-759-013-17	IC TDA6200

<TRANSISTOR>

Q201	8-729-178-54	TRANSISTOR 2SC2785
Q202	8-729-178-54	TRANSISTOR 2SC2785

<RESISTOR>

R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-425-11	CARBON	4.7K	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-249-435-11	CARBON	33K	5%	1/4W
R205	1-249-435-11	CARBON	33K	5%	1/4W
R206	1-249-423-11	CARBON	3.3K	5%	1/4W
R207	1-249-423-11	CARBON	3.3K	5%	1/4W
R208	1-249-431-11	CARBON	15K	5%	1/4W
R209	1-249-433-11	CARBON	22K	5%	1/4W
R210	1-249-431-11	CARBON	15K	5%	1/4W
R211	1-249-441-11	CARBON	100K	5%	1/4W
R212	1-249-433-11	CARBON	22K	5%	1/4W
R213	1-249-431-11	CARBON	15K	5%	1/4W
R214	1-249-417-11	CARBON	1K	5%	1/4W
R215	1-249-433-11	CARBON	22K	5%	1/4W
R216	1-249-433-11	CARBON	22K	5%	1/4W
R217	1-249-431-11	CARBON	15K	5%	1/4W
R218	1-249-417-11	CARBON	1K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-425-11	CARBON	4.7K	5%	1/4W
R221	1-249-417-11	CARBON	1K	5%	1/4W
R222	1-249-417-11	CARBON	1K	5%	1/4W
R223	1-249-413-11	CARBON	470	5%	1/4W
R224	1-249-413-11	CARBON	470	5%	1/4W
R225	1-249-417-11	CARBON	1K	5%	1/4W
R226	1-249-417-11	CARBON	1K	5%	1/4W
R227	1-249-417-11	CARBON	1K	5%	1/4W
R228	1-249-417-11	CARBON	1K	5%	1/4W
R229	1-249-441-11	CARBON	100K	5%	1/4W
R230	1-249-441-11	CARBON	100K	5%	1/4W
R231	1-249-437-11	CARBON	47K	5%	1/4W
R232	1-249-437-11	CARBON	47K	5%	1/4W

****

MISCELLANEOUS
****

⚠	1-451-255-42	DEFLECTION YOKE (SY-164)
	1-452-032-00	MAGNET, DISK; 10MM φ
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ
	1-452-146-21	MAGNET, BMC
⚠	1-452-391-21	NECK ASSY, PICTURE TUBE (NA305)
⚠	1-228-544-12	RESISTOR ASSY, HIGH-VOLTAGE
⚠	1-559-347-11	CORD, POWER (WITH CONNECTOR)
L901 ⚠	1-426-378-11	COIL, DEMAGNETIZATION
T802 ⚠	1-439-418-21	TRANSFORMER ASSY, FLYBACK
V901 ⚠	8-736-653-05	PICTURE TUBE (A64JKJ60X)

****

ACCESSORIES AND PACKING MATERIALS
****

PART NO.	DESCRIPTION	REMARK
A-1470-818-A	COMMANDER ASSY (RM-670)	
*A-1499-747-A	BOX ASSY, SPEAKER	
1-574-071-11	CORD (WITH PLUG)	
*4-381-125-01	CUSHION (FRONT)	
*4-381-155-01	BAG, PROTECTION	
*4-389-238-01	CUSHION (UPPER) (ASSY)	
*4-389-239-01	CUSHION (LOWER) (ASSY)	
*4-389-240-01	INDIVIDUAL CARTON	
4-482-582-42	MANUAL, INSTRUCTION	

9-964-183-01

Sony Corporation
TV Group

English
90GJ0403-2
Printed in Japan
© 1988. 10

KV-DX271TU
RM-670

SONY
SERVICE MANUAL

UK Model
Chassis No. SCC-B15K-A

SUPPLEMENT-1

SUBJECT : CIRCUIT MODIFICATION

File this supplement with the Service Manual.

1. INTRODUCTION

1. A Circuit board has been changed.
2. A1 Circuit board has been changed.
3. B Circuit board has been changed.
4. J1 Circuit board has been changed.

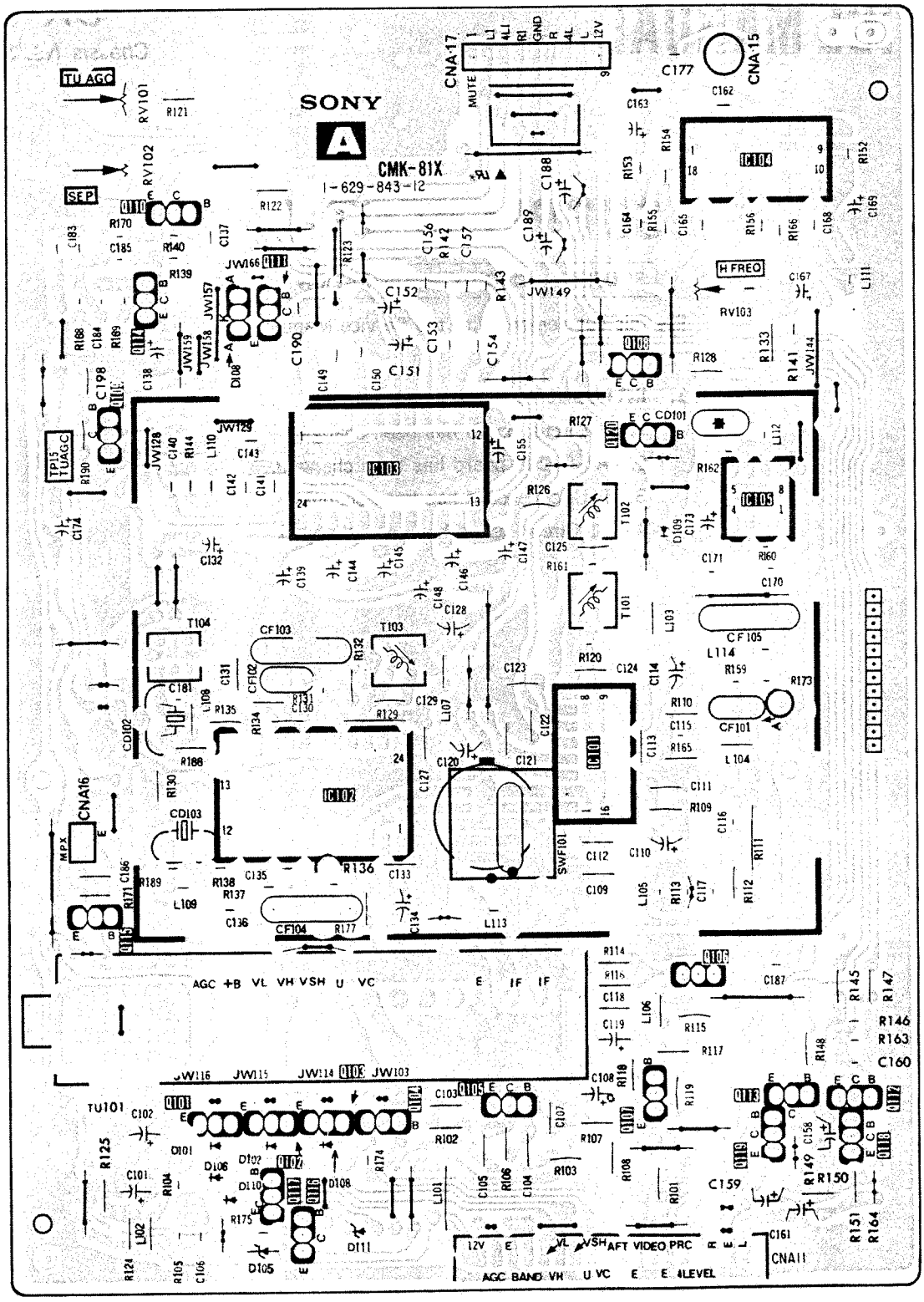
MICROFILM

SECTION 5
DIAGRAMS

A [SIGNAL TUNER, BAND SW]

PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

—A Board—



KV-DX271TU
RM-670

SONY
SERVICE MANUAL

UK Model
Chassis No.SCC-B15K-A

SUPPLEMENT-2

SUBJECT : A1 Circuit board has been changed.

File this supplement with the service manual.

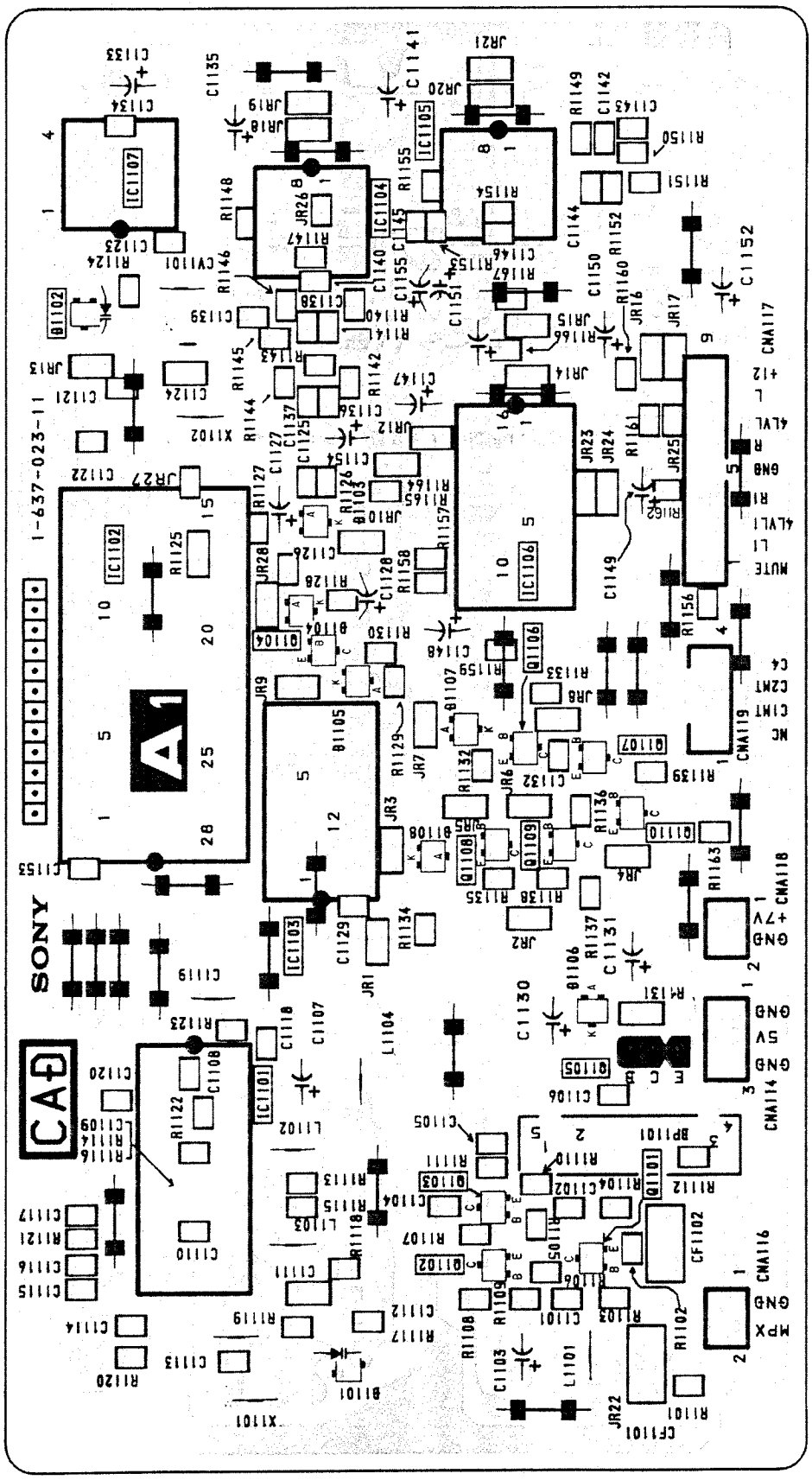
1. INTORDUCITION

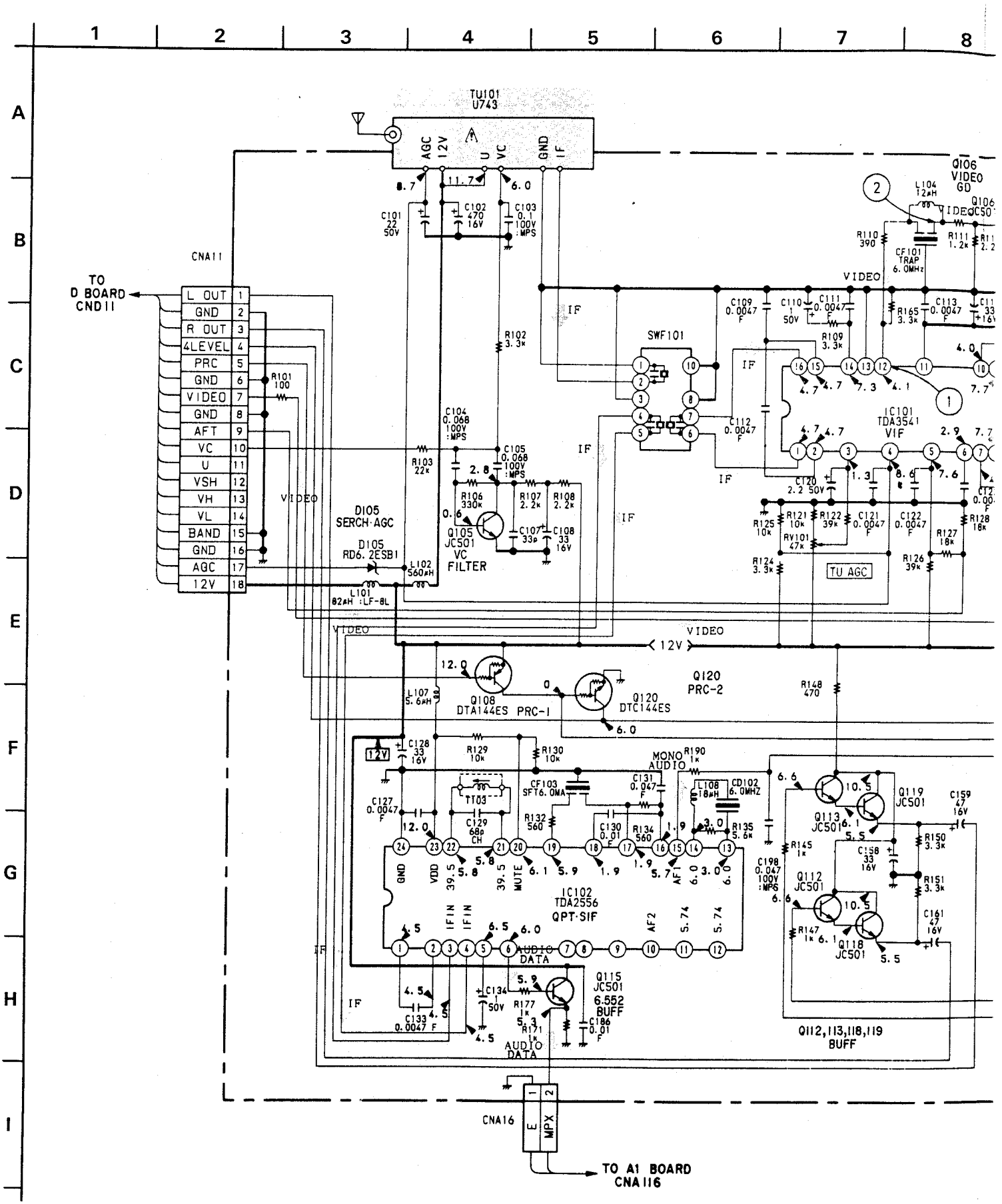
If mounting drawing No. is 1-637-023-11 Supplement-2 must be used.

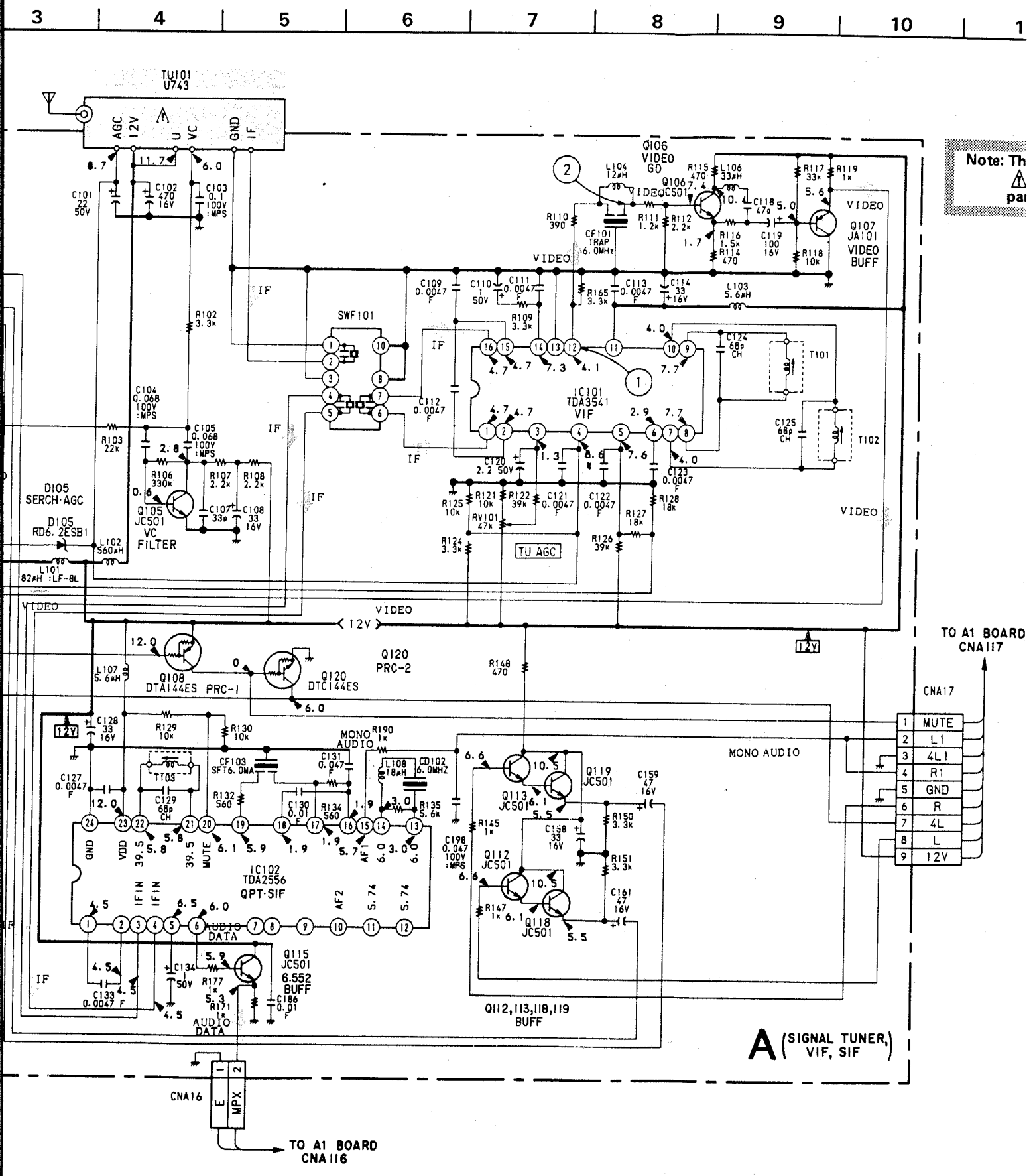
ROFILM

A1 [DEMODE, NICAM, DECO INVERTER, D/A CONV, EQ AMP L·R, AUDIO SW,]

—A1 Board—




TU101
U743
AGC
12V
U
VC
GND
IF
CNA11
TO
D BOARD
CND11
L OUT
GND
R OUT
4LEVEL
PRC
GND
VIDEO
GND
AFT
VC
U
VSH
VH
VL
BAND
GND
AGC
12V
VIDEO
IF
SWF101
IC101
TDA3541
VIF
TU AGC
D105
SERCH·AGC
D105
RD6.2ESB1
Q105
JC501
VC
FILTER
Q106
VIDEO
GD
Q108
DTA144ES PRC-1
Q120
DTC144ES
Q120
PRC-2
IC102
TDA2556
QPT·SIF
MONO
AUDIO
AUDIO
DATA
Q115
JC501
6.552
BUFF
Q112,113,118,119
BUFF
CF101
TRAP
6.0MHz
CF103
SFT6.0MA
CD102
6.0MHZ
TT03
CNA16
E
MPX
TO A1 BOARD
CNA116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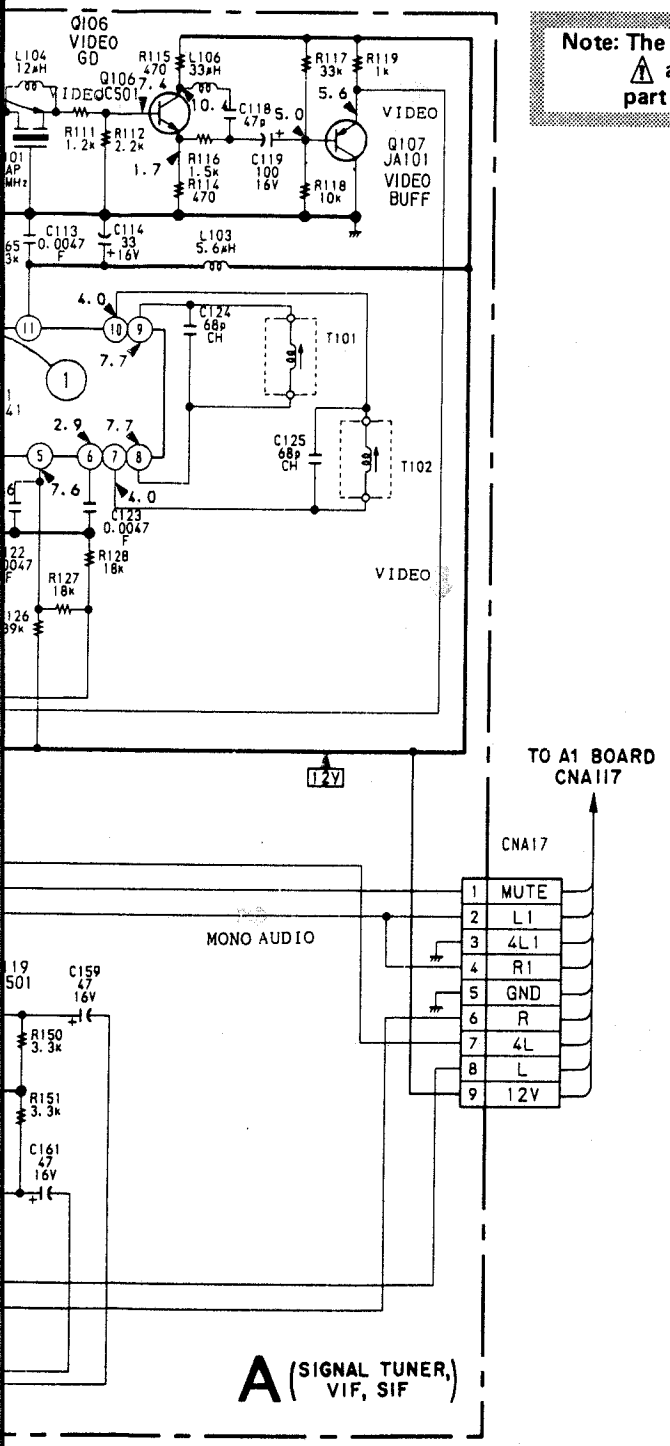
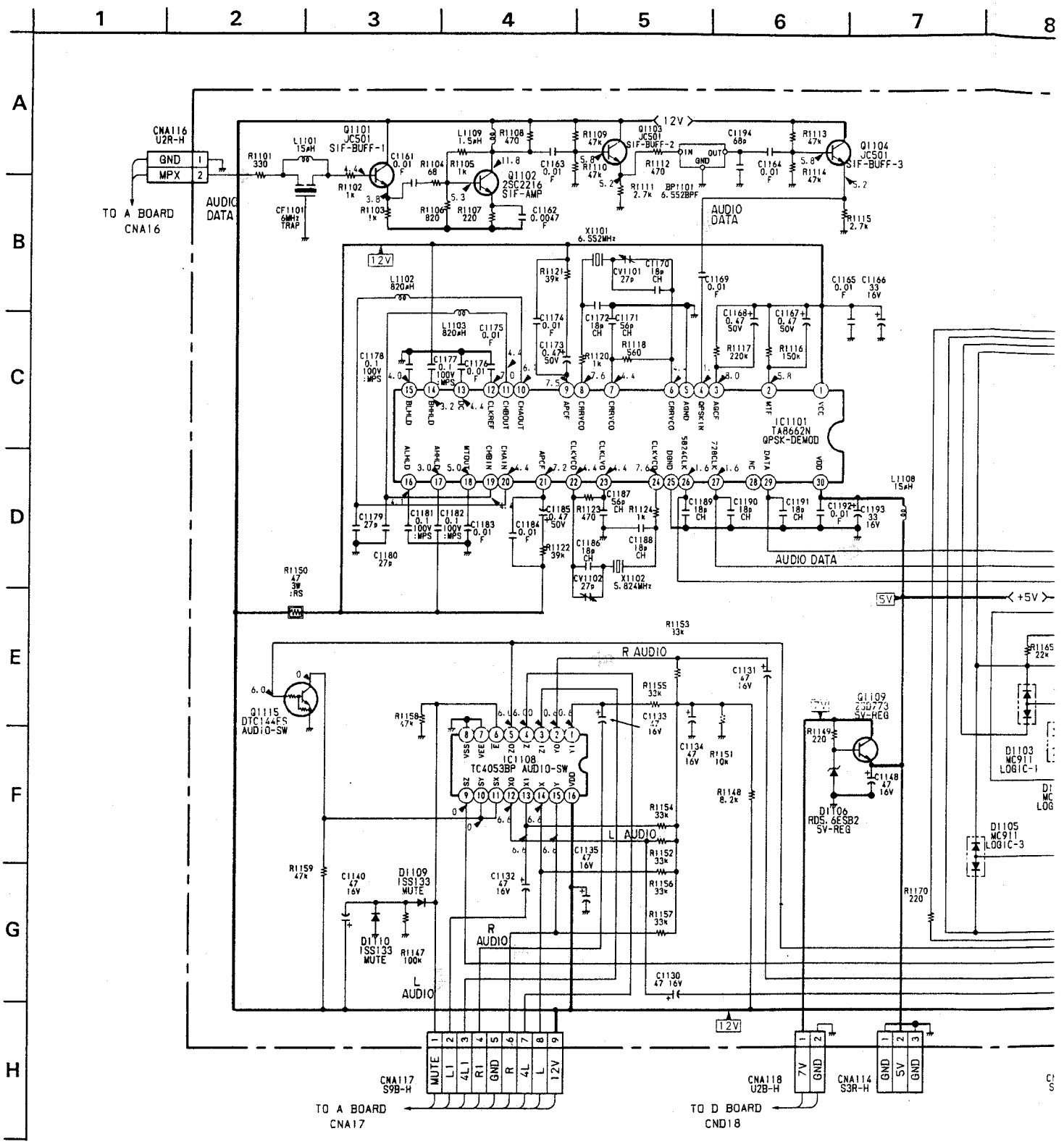
TU101
U743
AGC
12V
U
VC
GND
IF
Q106
VIDEO
GD
Q107
JA101
VIDEO
BUFF
SWF101
IC101
TDA3541
VIF
T101
T102
TU AGC
D105
SERCH·AGC
D105
RD6.2ESB1
Q105
JC501
VC
FILTER
Q108
DTA144ES PRC-1
Q120
DTC144ES
Q120
PRC-2
IC102
TDA2556
QPT·SIF
AUDIO
DATA
Q115
JC501
6.552
BUFF
Q112,113,118,119
BUFF
MONO AUDIO
TO A1 BOARD
CNA117
CNA17
MUTE
L1
4L1
R1
GND
R
4L
L
12V
CNA16
E
MPX
TO A1 BOARD
CNA116
A (SIGNAL TUNER, VIF, SIF)

8 | 9 | 10 | 11



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.


1
2
3
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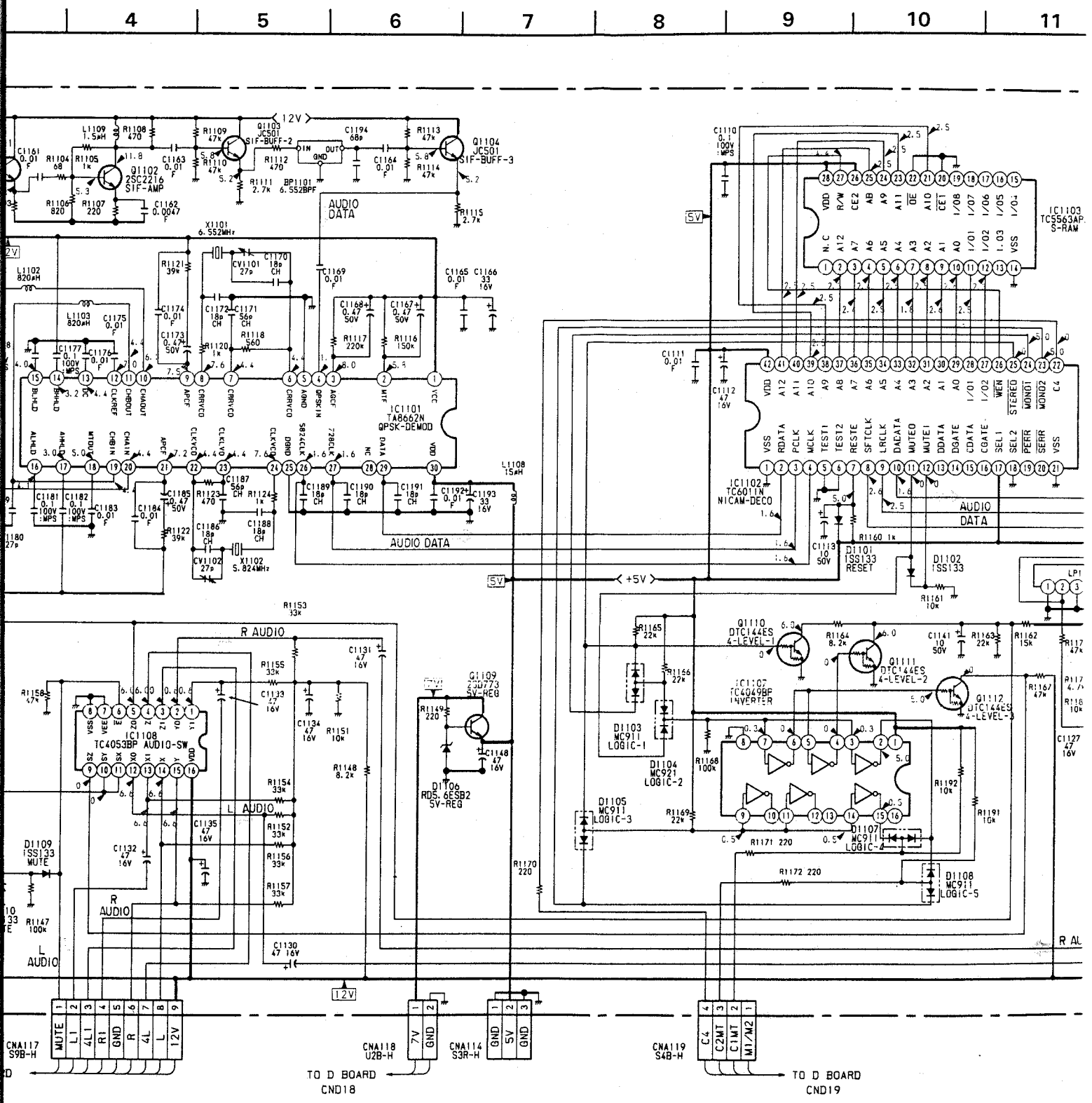
7
8
A
B
C
D
E
F
G
H
CNA116
U2R-H
GND
MPX
TO A BOARD
CNA16
AUDIO DATA
Q1101
JC501
SIF-BUFF-1
Q1102
2SC2216
SIF-AMP
Q1103
JC501
SIF-BUFF-2
Q1104
JC501
SIF-BUFF-3
BP1101
6.552BPF
12V
X1101
6.552MHz
X1102
5.824MHz
IC1101
TA8662N
QPSK-DEMOD
BLHLD
BHHLD
CLKREF
CHBOUT
CHAOUT
APCF
CRRYCO
CRRYCO
CRRYCO
AGND
QPSK1N
AGCF
MTF
VCC
ALHLD
AMHLD
MTOUT
CHBIN
CHAIN
APCF
CLKYCO
CLKLYO
CLKYCO
DGND
5824CLK
728CLK
NC
DATA
VDD
AUDIO DATA
5V
+5V
R1153
33k
R AUDIO
Q1115
DTC144ES
AUDIO-SW
IC1108
TC4053BP AUDIO-SW
L AUDIO
R AUDIO
Q1109
2SD773
5V-REG
D1106
RD5.6ESB2
5V-REG
D1103
MC911
LOGIC-1
D1105
MC911
LOGIC-3
D1109
1SS133
MUTE
D1110
1SS133
MUTE
R1147
100k
R1148
8.2k
R1150
47
3W
RS
R1170
220
CNA117
S9B-H
MUTE
LI
4LI
RI
GND
R
4L
L
12V
TO A BOARD
CNA17
CNA118
U2B-H
7V
GND
TO D BOARD
CND18
CNA114
S3R-H
GND
5V
GND


4
5
6
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8
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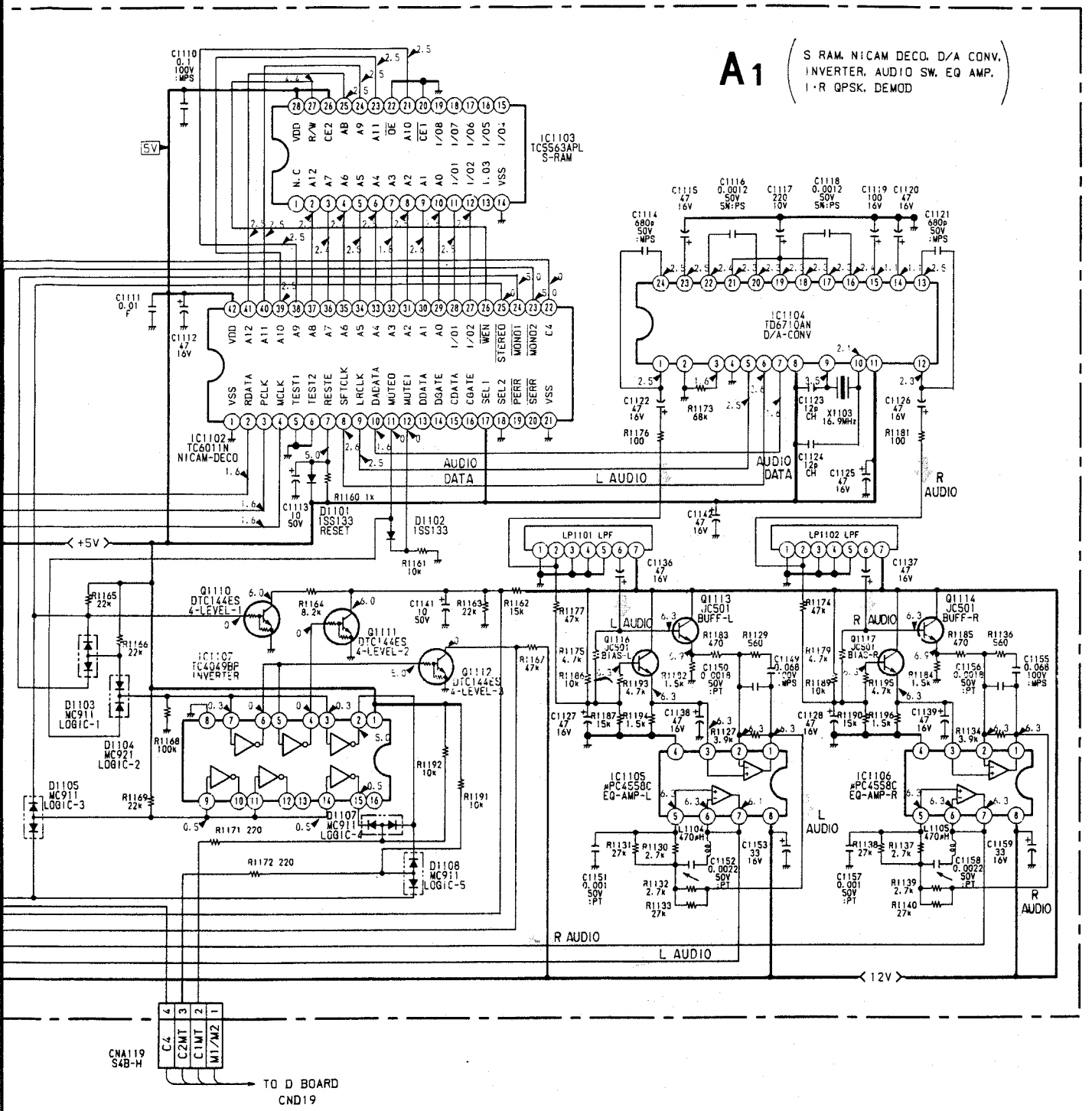
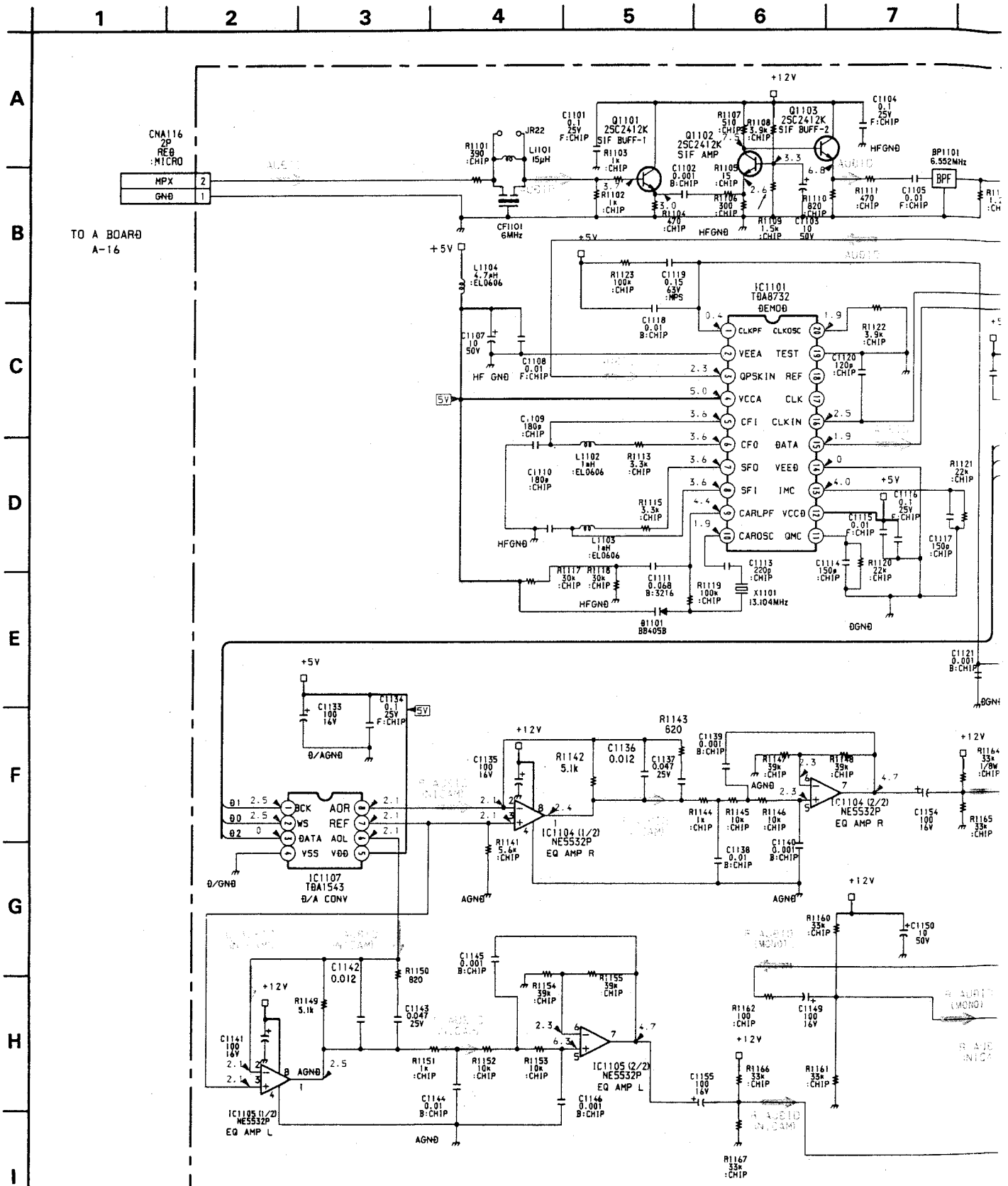
10
11
12V
5V
+5V
AUDIO DATA
R AUDIO
L AUDIO
IC1101 TA8662N QPSK-DEMOD
IC1102 TC6011N NICAM-DECO
IC1103 TC5563AP S-RAM
IC1107 TC40498F INVERTER
IC1108 TC4053BP AUDIO-SW
X1101 6.552MHz
X1102 5.824MHz
BP1101 6.552BPF
Q1102 2SC2216 SIF-AMP
Q1103 JC501 SIF-BUFF-2
Q1104 JC501 SIF-BUFF-3
Q1109 2SD773 5V-REG
D1106 RD5.6ESB2 5V-REG
D1101 1SS133 RESET
D1102 1SS133
D1103 MC911 LOGIC-1
D1104 MC921 LOGIC-2
D1105 MC911 LOGIC-3
D1107 MC911 LOGIC-4
D1108 MC911 LOGIC-5
D1109 1SS133 MUTE
Q1110 DTC144ES 4-LEVEL-1
Q1111 DTC144ES 4-LEVEL-2
Q1112 DTC144ES 4-LEVEL-3
CNA117 S9B-H
CNA118 U2B-H
CNA114 S3R-H
CNA119 S4B-H
MUTE
LI
4LI
RI
GND
R
4L
L
12V
7V
GND
5V
C4
C2MT
C1MT
M1/M2
TO D BOARD CND18
TO D BOARD CND19

8 9 10 11 12 13 14 15




1
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A
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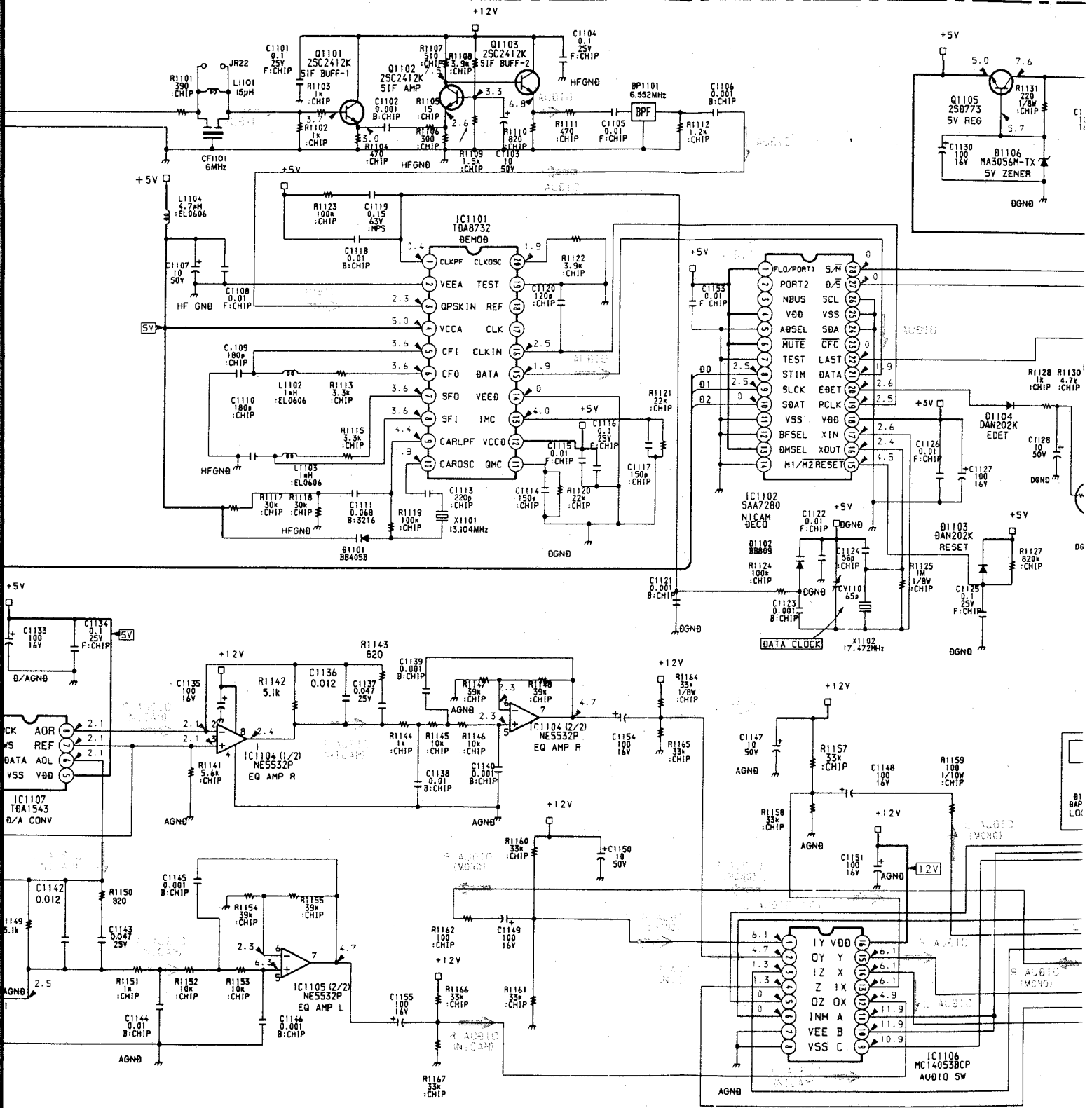
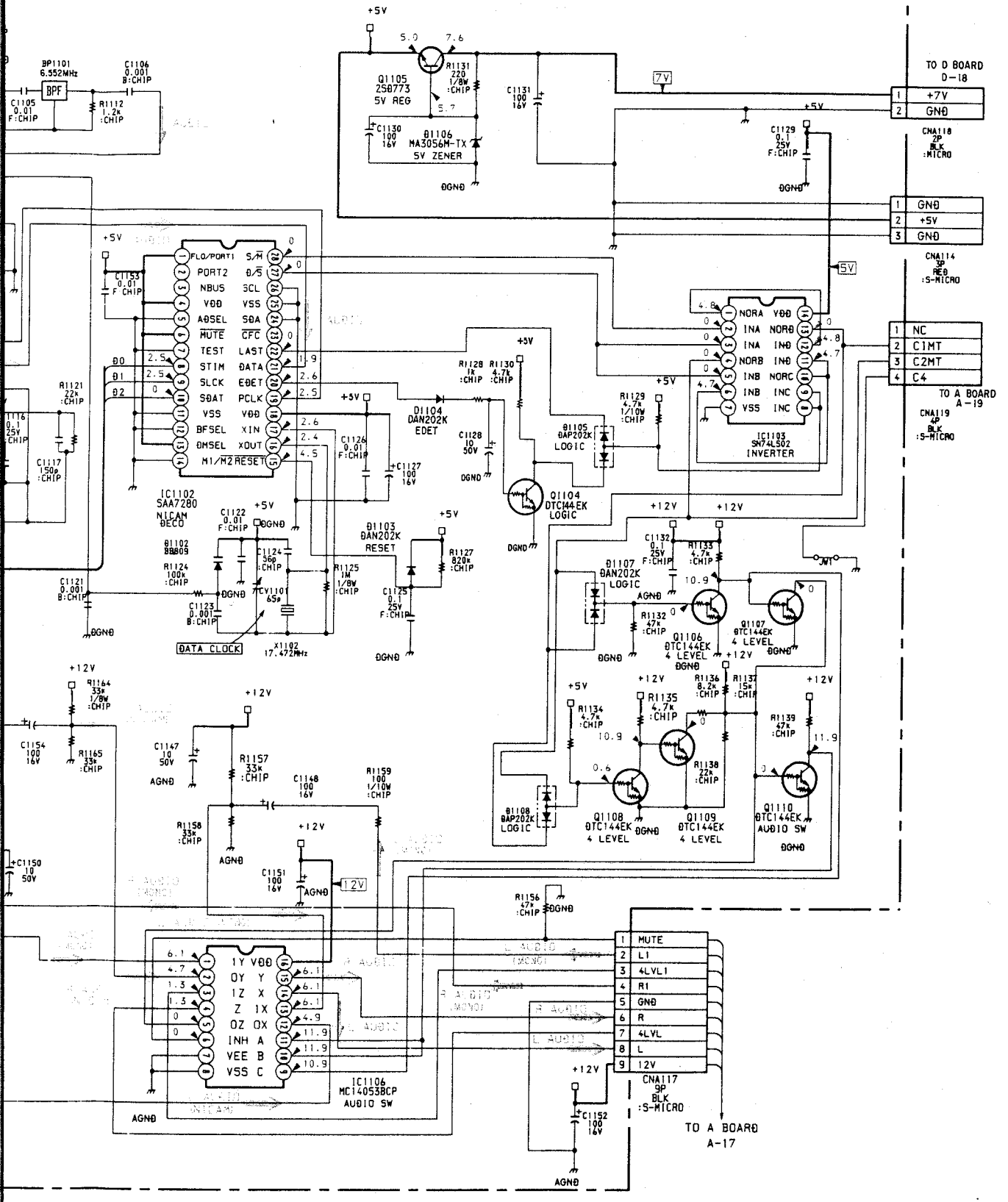
C
D
E
F
G
H
I
CNA116
2P
REØ
:MICRO
MPX
GNØ
TO A BOARØ
A-16
+12V
+5V
Q1101
2SC2412K
SIF BUFF-1
Q1102
2SC2412K
SIF AMP
Q1103
2SC2412K
SIF BUFF-2
JR22
L1101
15µH
CF1101
6MHz
BPF
BP1101
6.552MHz
IC1101
TØA8732
ØEMOØ
CLKPF
CLKOSC
VEEA
TEST
QPSKIN
REF
VCCA
CLK
CFI
CLKIN
CFO
ØATA
SFO
VEEØ
SFI
IMC
CARLPF
VCCØ
CAROSC
QMC
HF GNØ
HFGNØ
ØGNØ
X1101
13.104MHz
D1101
BB405B
IC1107
TØA1543
Ø/A CONV
BCK
WS
ØATA
VSS
AOR
REF
AOL
VDØ
Ø/AGNØ
IC1104 (1/2)
NE5532P
EQ AMP R
IC1104 (2/2)
NE5532P
EQ AMP R
IC1105 (1/2)
NE5532P
EQ AMP L
IC1105 (2/2)
NE5532P
EQ AMP L
AGNØ
A1
(ØEMOØE, NICAM, ØECO,
INVERTER, Ø/A CONV,
EQ AMP L.R AUØIO SW.)

3 4 5 6 7 8 9 10



0EM00E, NICAM, 0ECO, INVERTER, 0/A CONV, EQ AMP L.R, AUDIO SW.

8 9 10 11 12 13 14 15



SECTION 7
ELECTRICAL PARTS LIST

A1

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION		REMARK
	A-1632-028-A	A1 BOARD, COMPLETE		
		**********		
		<FILTER>		
BP1101	1-236-238-11	FILTER, BAND PASS		
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)		
		<CAPACITOR>		
C1101	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1102	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1103	1-124-907-11	ELECT 10MF	20%	50V
C1104	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1105	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C1106	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1107	1-124-907-11	ELECT 10MF	20%	50V
C1108	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C1109	1-163-123-00	CERAMIC CHIP 180PF	5%	50V
C1110	1-163-123-00	CERAMIC CHIP 180PF	5%	50V
C1111	1-164-157-11	CERAMIC CHIP 0.068MF	10%	25V
C1113	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C1114	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C1115	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C1116	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1117	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C1118	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C1119	1-137-133-11	FILM 0.15MF	5%	63V
C1120	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C1121	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1122	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C1123	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1124	1-163-175-00	CERAMIC CHIP 56PF	5%	50V
C1125	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1126	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C1127	1-126-101-11	ELECT 100MF	20%	16V
C1128	1-124-907-11	ELECT 10MF	20%	50V
C1129	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1130	1-126-101-11	ELECT 100MF	20%	16V
C1131	1-126-101-11	ELECT 100MF	20%	16V
C1132	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1133	1-126-101-11	ELECT 100MF	20%	16V
C1134	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C1135	1-126-101-11	ELECT 100MF	20%	16V
C1136	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V
C1137	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C1138	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C1139	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1140	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1141	1-126-101-11	ELECT 100MF	20%	16V
C1142	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V
C1143	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C1144	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C1145	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1146	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1147	1-124-907-11	ELECT 10MF	20%	50V
C1148	1-126-101-11	ELECT 100MF	20%	16V
C1149	1-126-101-11	ELECT 100MF	20%	16V
C1150	1-124-907-11	ELECT 10MF	20%	50V
C1151	1-126-101-11	ELECT 100MF	20%	16V
C1152	1-126-101-11	ELECT 100MF	20%	16V
C1153	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C1154	1-126-101-11	ELECT 100MF	20%	16V
C1155	1-126-101-11	ELECT 100MF	20%	16V
		<CONNECTOR>		
CNA114*	1-564-880-31	PLUG, CONNECTOR 3P		
CNA116*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
CNA117*	1-564-886-21	PLUG, CONNECTOR 9P		
CNA118*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
CNA119*	1-564-881-11	PLUG, CONNECTOR 4P		
		<TRIMMER>		
CV1101	1-141-418-11	CAP, ADJ		
		<DIODE>		
D1101	8-719-988-70	DIODE BB405B		
D1102	8-719-988-71	DIODE BB809		
D1103	8-719-400-18	DIODE MA152WK		
D1104	8-719-400-18	DIODE MA152WK		
D1105	8-719-914-44	DIODE DAP202K		
D1106	8-719-105-91	DIODE RD5.6M-B2		
D1107	8-719-400-18	DIODE MA152WK		
D1108	8-719-914-44	DIODE DAP202K		
		<IC>		
IC1101	8-759-511-88	IC TDA8732		
IC1102	8-759-511-89	IC SAA7280		
IC1103	8-759-900-02	IC SN74LS02N		
IC1104	8-759-900-72	IC NE5532P		
IC1105	8-759-900-72	IC NE5532P		
IC1106	8-759-140-53	IC UPD4053BC		
IC1107	8-759-504-22	IC TDA1543		
		<COIL>		
L1101	1-408-411-00	INDUCTOR 15UH		
L1102	1-410-119-11	INDUCTOR 1MMH		
L1103	1-410-119-11	INDUCTOR 1MMH		

A1

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1104	1-408-405-00	INDUCTOR 4.7UH	
		<TRANSISTOR>	
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1104	8-729-901-01	TRANSISTOR DTC144EK	
Q1105	8-729-140-98	TRANSISTOR 2SD773-34	
Q1106	8-729-901-01	TRANSISTOR DTC144EK	
Q1107	8-729-901-01	TRANSISTOR DTC144EK	
Q1108	8-729-901-01	TRANSISTOR DTC144EK	
Q1109	8-729-901-01	TRANSISTOR DTC144EK	
Q1110	8-729-901-01	TRANSISTOR DTC144EK	
		<RESISTOR>	
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR2	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR4	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR6	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR12	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR13	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR15	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR16	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR17	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR18	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR25	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR26	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR27	1-216-035-00	METAL GLAZE 270 5% 1/10W	
JR28	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R1101	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R1102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1103	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1104	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1105	1-216-005-00	METAL GLAZE 15 5% 1/10W	
R1106	1-216-036-00	METAL GLAZE 300 5% 1/10W	
R1107	1-216-042-00	METAL GLAZE 510 5% 1/10W	
R1108	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R1109	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1110	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R1111	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1112	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R1113	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1115	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1117	1-216-084-00	METAL GLAZE 30K 5% 1/10W	
R1118	1-216-084-00	METAL GLAZE 30K 5% 1/10W	
R1119	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1120	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1121	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1122	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R1123	1-216-097-00	METAL GLAZE 100K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1124	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1125	1-216-270-00	METAL GLAZE 1M 5% 1/8W	
R1127	1-216-119-00	METAL GLAZE 820K 5% 1/10W	
R1128	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1129	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1130	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1131	1-216-182-00	METAL GLAZE 220 5% 1/8W	
R1132	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1133	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1134	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1135	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1136	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R1137	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R1138	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1139	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1141	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1142	1-216-066-00	METAL GLAZE 5.1K 5% 1/10W	
R1143	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R1144	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1145	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1146	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1147	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1148	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1149	1-216-066-00	METAL GLAZE 5.1K 5% 1/10W	
R1150	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R1151	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1152	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1153	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1154	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1155	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1156	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1157	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1158	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1159	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1160	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1161	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1162	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1164	1-216-234-00	METAL GLAZE 33K 5% 1/8W	
R1165	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1166	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1167	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
		<CRYSTAL>	
X1101	1-579-283-11	VIBRATOR, CRYSTAL	
X1102	1-579-281-11	VIBRATOR, CRYSTAL	

9-964-183-82

Sony Corporation
TV Group

English
92AU0217-1
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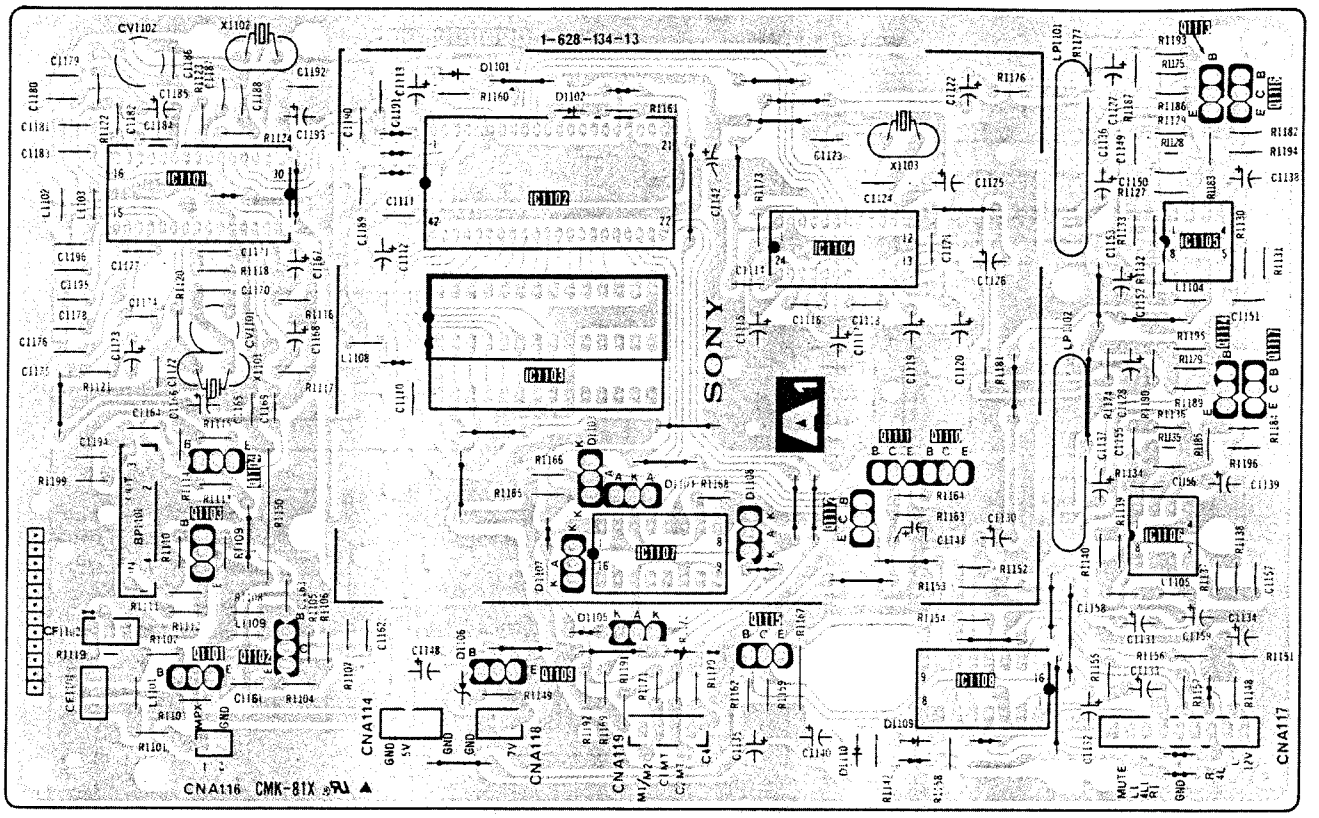
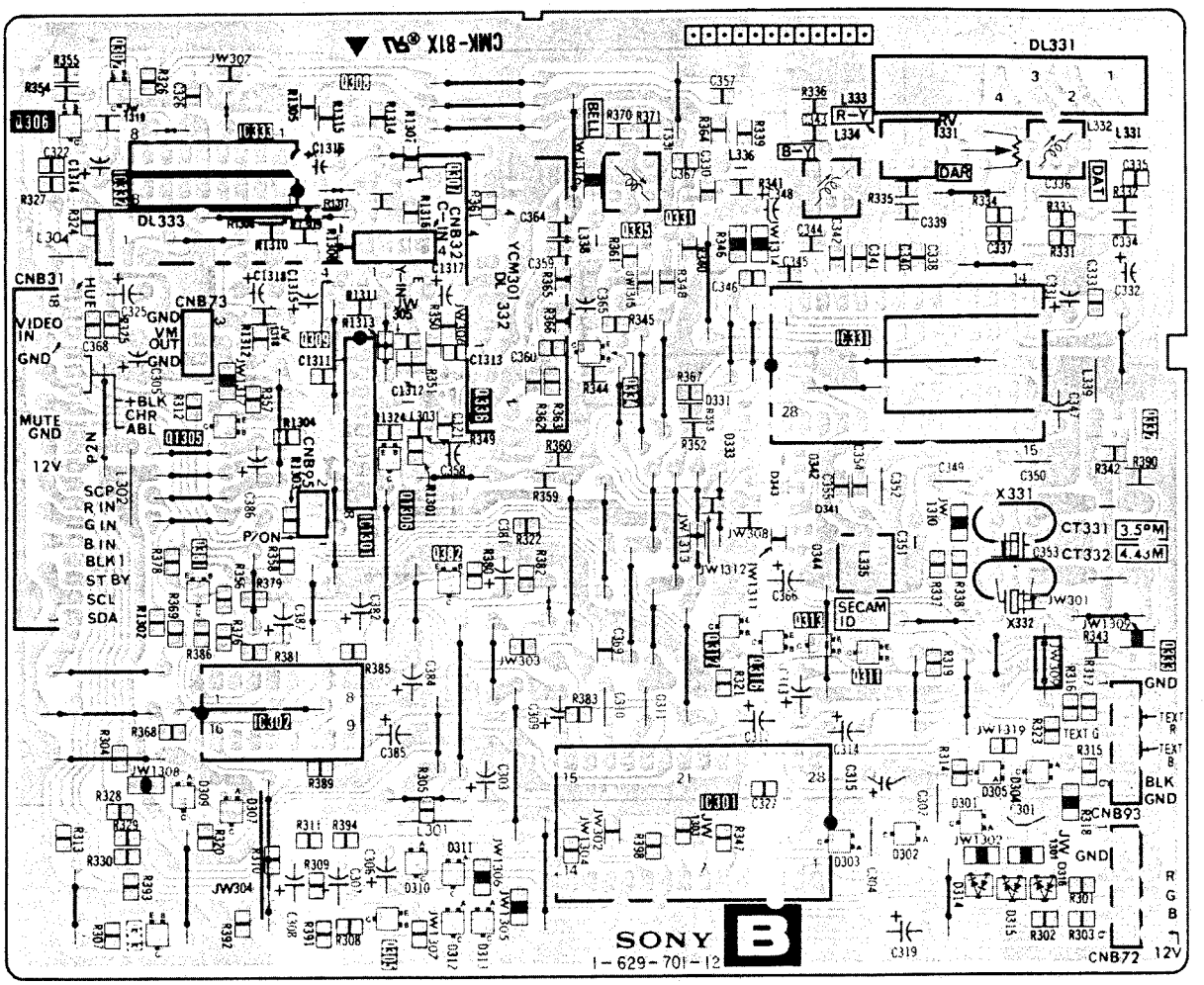
[S RAM, NICAM DECO, D/A CONV, INVERTER, AUDIO SW, EQ AMP, I•R QPSK, DEMOD] **A1**

—A1 Board—



B [CHROMA DECODER]

—B Board—



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MAURITRON SERVICES
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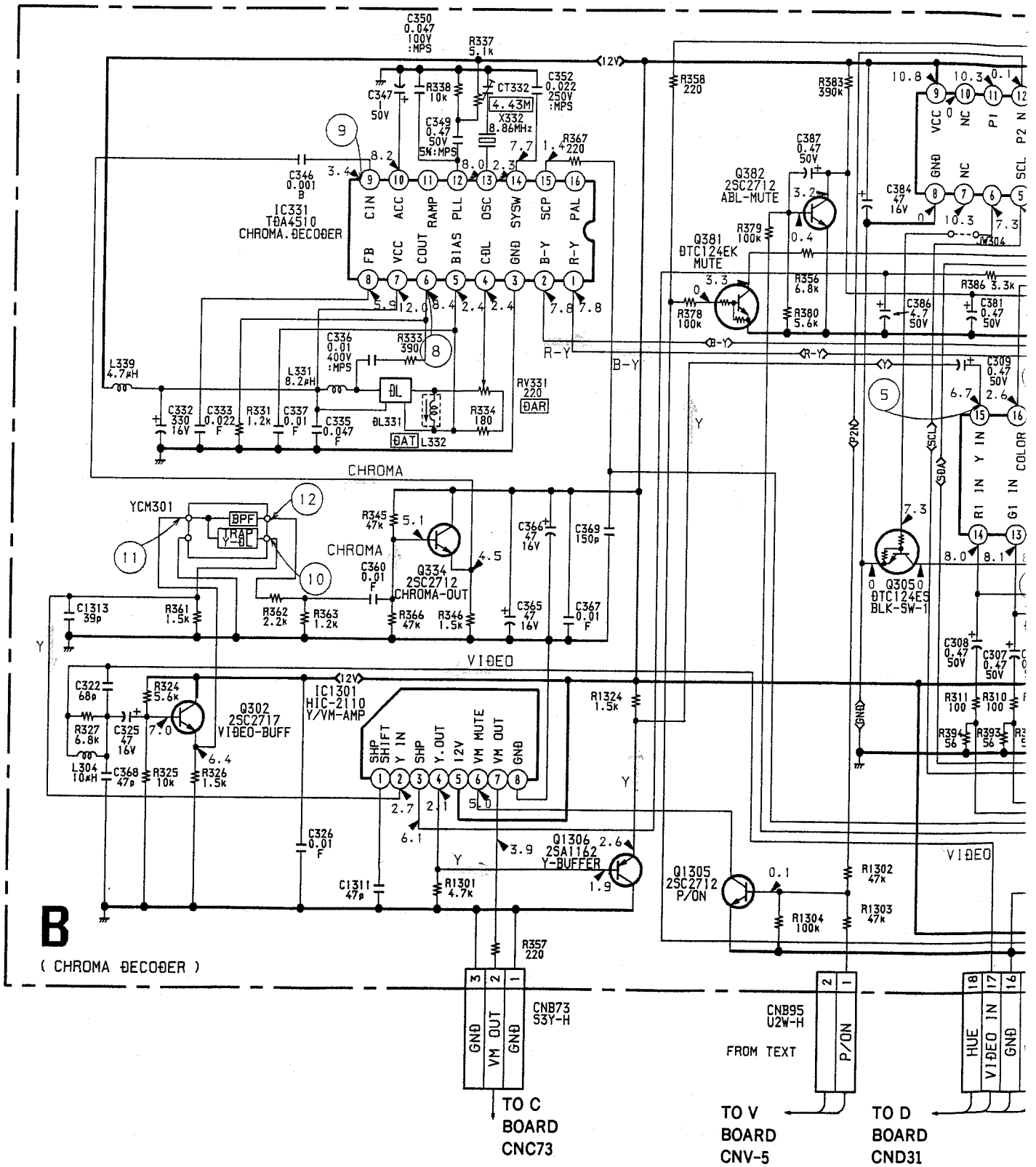
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com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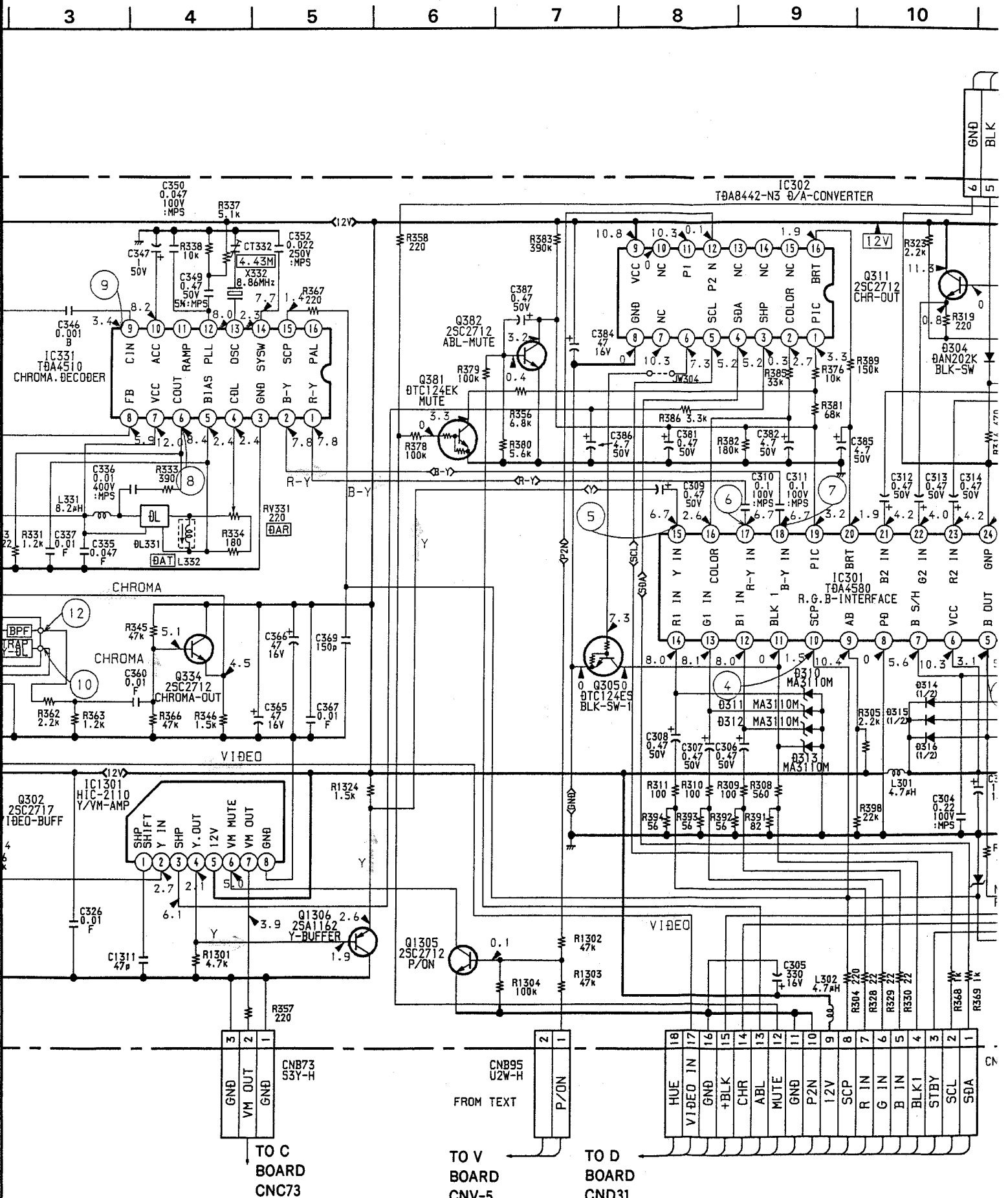
2SC2712
ABL-MUTE
Q381
DTC124EK
MUTE
Q3050
DTC124ES
BLK-SW-1
IC1301
HIC-2110
Y/VM-AMP
SHP SHIFT Y IN SHP Y OUT 12V VM MUTE VM OUT GND
Q302
2SC2717
VIDEO-BUFF
Q334
2SC2712
CHROMA-OUT
Q1306
2SA1162
Y-BUFFER
Q1305
2SC2712
P/ON
YCM301
BPF
TRAP
Y-DL
CHROMA
VIDEO
R1 IN Y IN G1 IN COLOR
B
(CHROMA DECODER)
CNB73
53Y-H
GND VM OUT GND
TO C
BOARD
CNC73
CNB95
U2W-H
FROM TEXT
P/ON
TO V
BOARD
CNV-5
HUE VIDEO IN GND
TO D
BOARD
CND31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IC331
TDA4510
CHROMA DECODER
IC301
TDA4580
R.G.B-INTERFACE
IC1301
HIC-2110
Y/VM-AMP
Q311
2SC2712
CHR-OUT
Q334
2SC2712
CHROMA-OUT
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2SC2712
ABL-MUTE
Q381
DTC124EK
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Y-BUFFER
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P/ON
D304
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BLK-SW
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D311
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D312
MA3110M
D313
MA3110M
D314
D315
D316
CHROMA
VIDEO
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TO D
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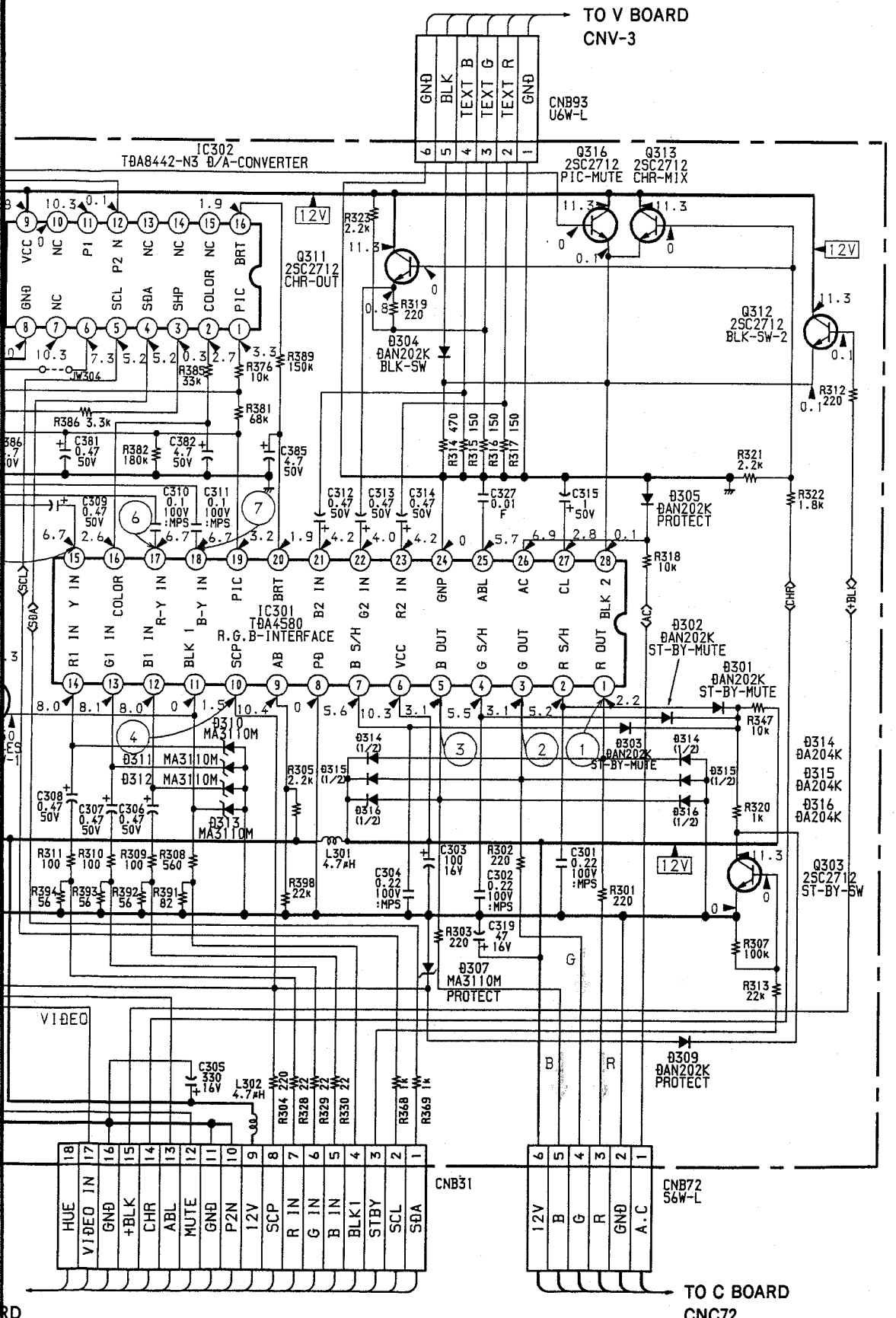
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TO V BOARD
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U6W-L
GND
BLK
TEXT B
TEXT G
TEXT R
GND
IC302
TDA8442-N3 D/A-CONVERTER
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DAN202K
BLK-SW
D305
DAN202K
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D302
DAN202K
ST-BY-MUTE
D301
DAN202K
ST-BY-MUTE
D303
DAN202K
ST-BY-MUTE
D314
DA204K
D315
DA204K
D316
DA204K
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D309
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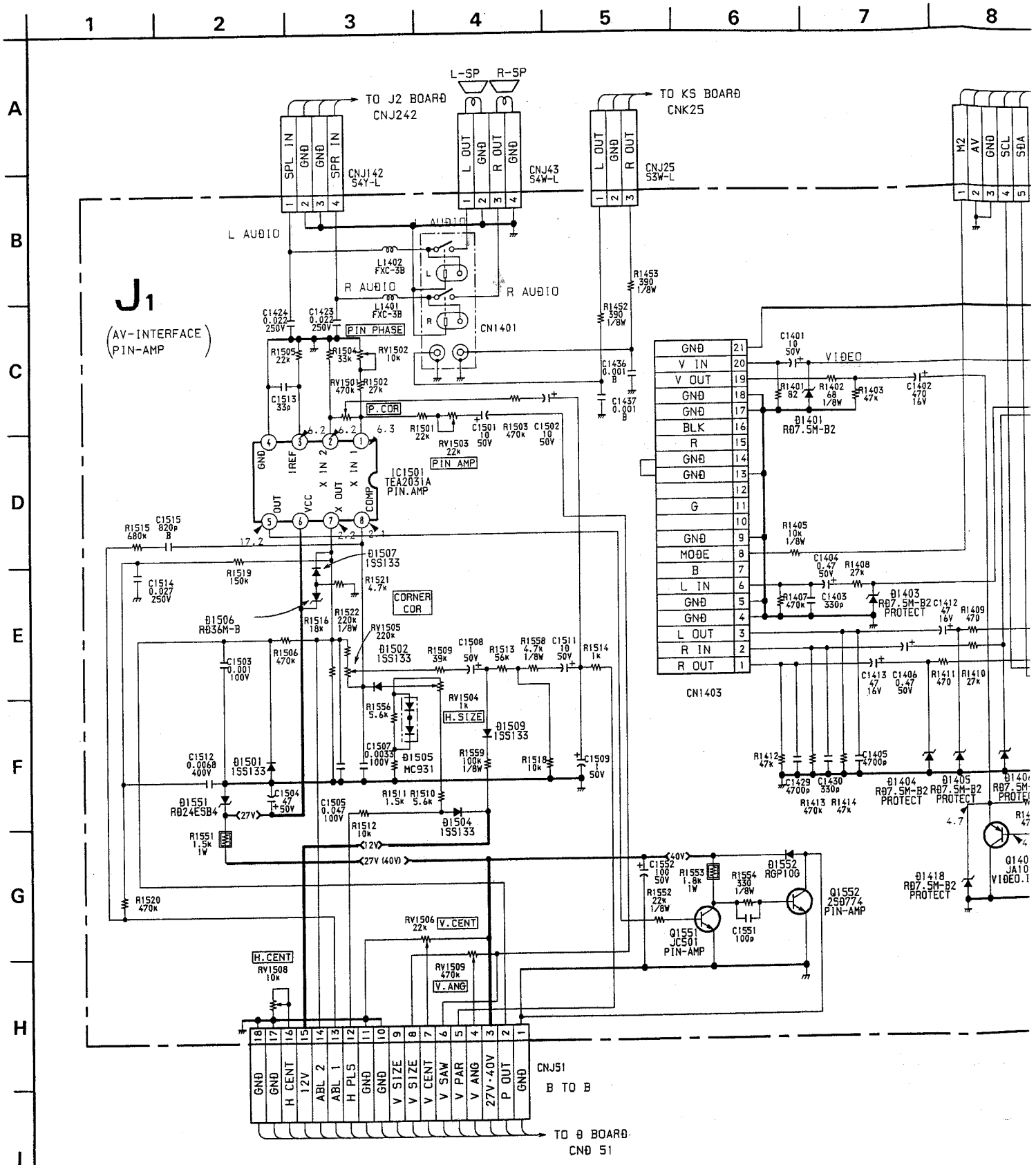
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A
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C
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G
H
I
J
L-SP
R-SP
TO J2 BOARD
CNJ242
SPL IN
GND
GND
SPR IN
CNJ142
5&Y-L
L OUT
GND
R OUT
GND
CNJ43
5&W-L
TO KS BOARD
CNK25
CNJ25
5&W-L
M2
AV
GND
SCL
SDA
L AUDIO
R AUDIO
AUDIO
L1402
FXC-3B
L1401
FXC-3B
J1
(AV-INTERFACE
PIN-AMP)
PIN PHASE
CN1401
P.COR
PIN AMP
IC1501
TEA2031A
PIN.AMP
GND
IREF
X IN 2
X IN 1
X OUT
VCC
OUT
COMP
CORNER
COR
H.SIZE
V.CENT
V.ANG
H.CENT
GND
GND
H CENT
12V
ABL 2
ABL 1
H PLS
GND
GND
V SIZE
V SIZE
V CENT
V SAW
V PAR
V ANG
27V·40V
P OUT
GND
CNJ51
B TO B
TO B BOARD
CND 51
GND 21
V IN 20
V OUT 19
GND 18
GND 17
BLK 16
R 15
GND 14
GND 13
12
G 11
10
GND 9
MODE 8
B 7
L IN 6
GND 5
GND 4
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R OUT 1
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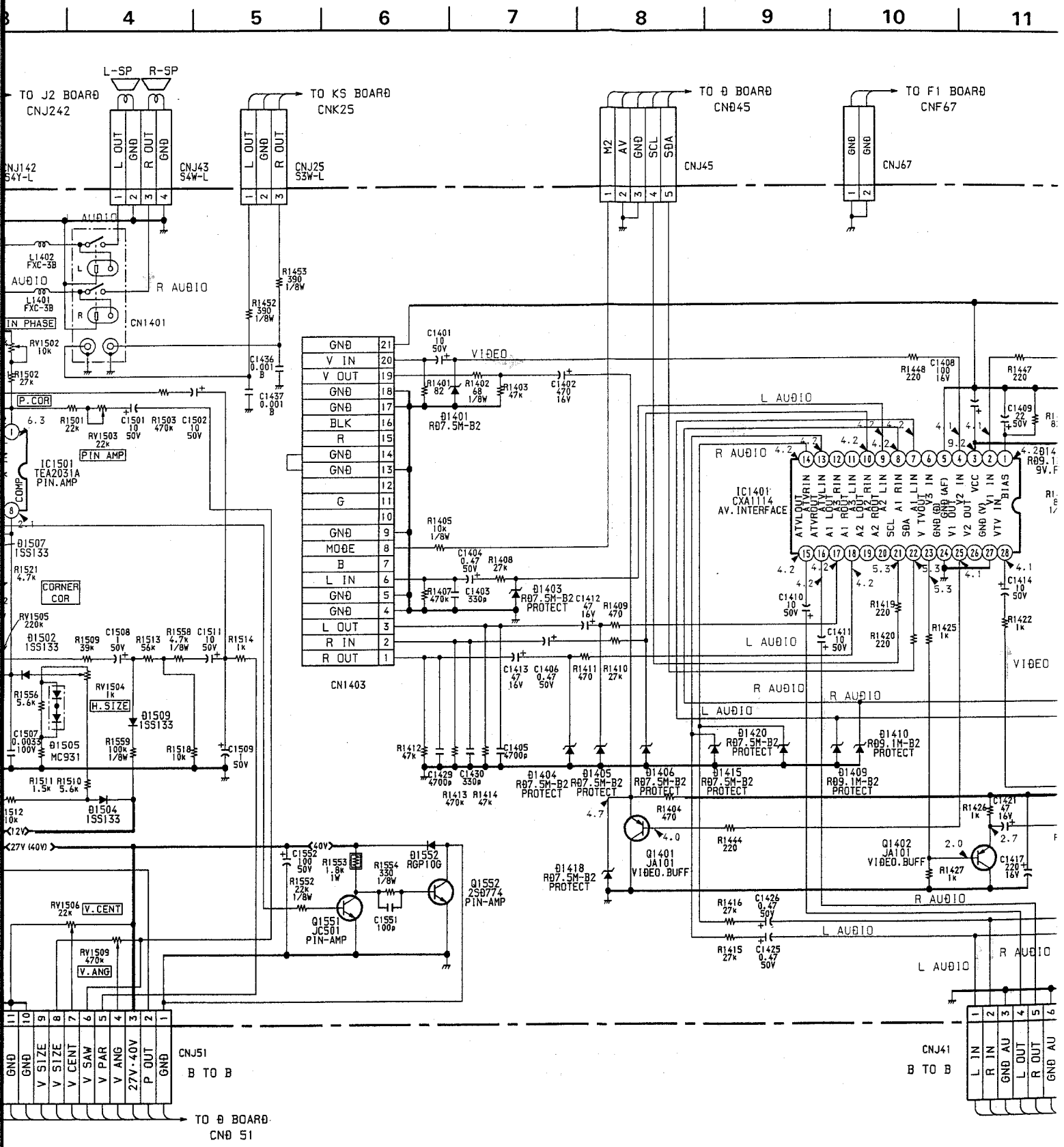
PIN-AMP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TO J2 BOARD
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CND45
TO F1 BOARD
CNF67
CNJ142
S4Y-L
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S3W-L
CNJ45
CNJ67
L OUT
GND
R OUT
M2
AV
SCL
SDA
L AUDIO
R AUDIO
L1402
FXC-3B
L1401
FXC-3B
IN PHASE
CN1401
RV1502
10k
R1502
27k
R1453
390
1/8W
R1452
390
1/8W
C1436
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B
C1437
0.001
B
P.COR
R1501
22k
C1501
10
50V
R1503
470k
C1502
10
50V
RV1503
22k
PIN AMP
IC1501
TEA2031A
PIN.AMP
COMP
D1507
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R1521
4.7k
CORNER
COR
RV1505
220k
D1502
1SS133
R1509
39k
C1508
1
50V
R1513
56k
R1558
4.7k
1/8W
C1511
10
50V
R1514
1k
RV1504
1k
H.SIZE
R1556
5.6k
D1509
1SS133
C1507
0.0033
100V
D1505
MC931
R1559
100k
1/8W
R1518
10k
C1509
1
50V
R1511
1.5k
R1510
5.6k
D1504
1SS133
1512
10k
12V
27V (40V)
40V
C1552
100
50V
R1553
1.8k
1W
R1554
330
1/8W
D1552
RGP10G
R1552
22k
1/8W
Q1551
JC501
PIN-AMP
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100p
Q1552
2SD774
PIN-AMP
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V.CENT
RV1509
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V.ANG
GND
GND
V SIZE
V SIZE
V CENT
V SAW
V PAR
V ANG
27V·40V
P OUT
GND
CNJ51
B TO B
TO D BOARD
CND 51
GND 21
V IN 20
V OUT 19
GND 18
GND 17
BLK 16
R 15
GND 14
GND 13
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GND 9
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GND 4
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82
R1402
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C1402
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1/8W
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C1413
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50V
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D1409
RD9.1M-B2
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220
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C1411
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50V
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R1420
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R1425
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50V
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Q1402
JA101
VIDEO.BUFF
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16V
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27k
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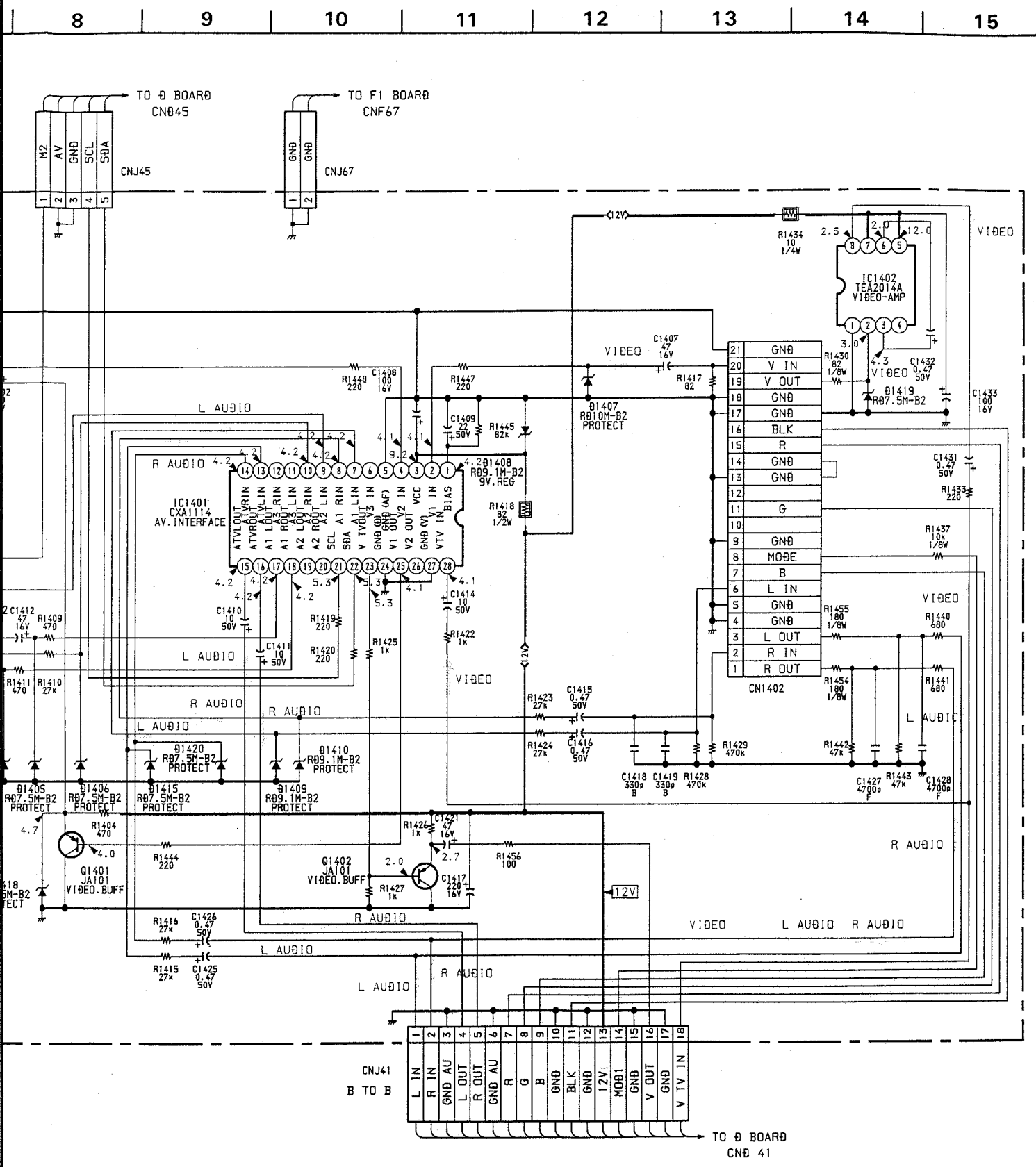
L IN
R IN
GND AU
L OUT
R OUT
GND AU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14
15
TO Ð BOARÐ
CNÐ45
CNJ45
M2
AV
GNÐ
SCL
SÐA
TO F1 BOARÐ
CNF67
CNJ67
GNÐ
GNÐ
12V
VIÐEO
IC1402
TEA2014A
VIÐEO-AMP
IC1401
CXA1114
AV. INTERFACE
Ð1407
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PROTECT
Ð1408
RÐ9.1M-B2
9V.REG
Ð1419
RÐ7.5M-B2
CN1402
21 GNÐ
20 V IN
19 V OUT
18 GNÐ
17 GNÐ
16 BLK
15 R
14 GNÐ
13 GNÐ
12
11 G
10
9 GNÐ
8 MOÐE
7 B
6 L IN
5 GNÐ
4 GNÐ
3 L OUT
2 R IN
1 R OUT
L AUÐIO
R AUÐIO
Ð1420
RÐ7.5M-B2
PROTECT
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RÐ9.1M-B2
PROTECT
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RÐ7.5M-B2
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RÐ7.5M-B2
PROTECT
Ð1415
RÐ7.5M-B2
PROTECT
Ð1409
RÐ9.1M-B2
PROTECT
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JA101
VIÐEO. BUFF
Q1402
JA101
VIÐEO. BUFF
CNJ41
B TO B
L IN
R IN
GNÐ AU
L OUT
R OUT
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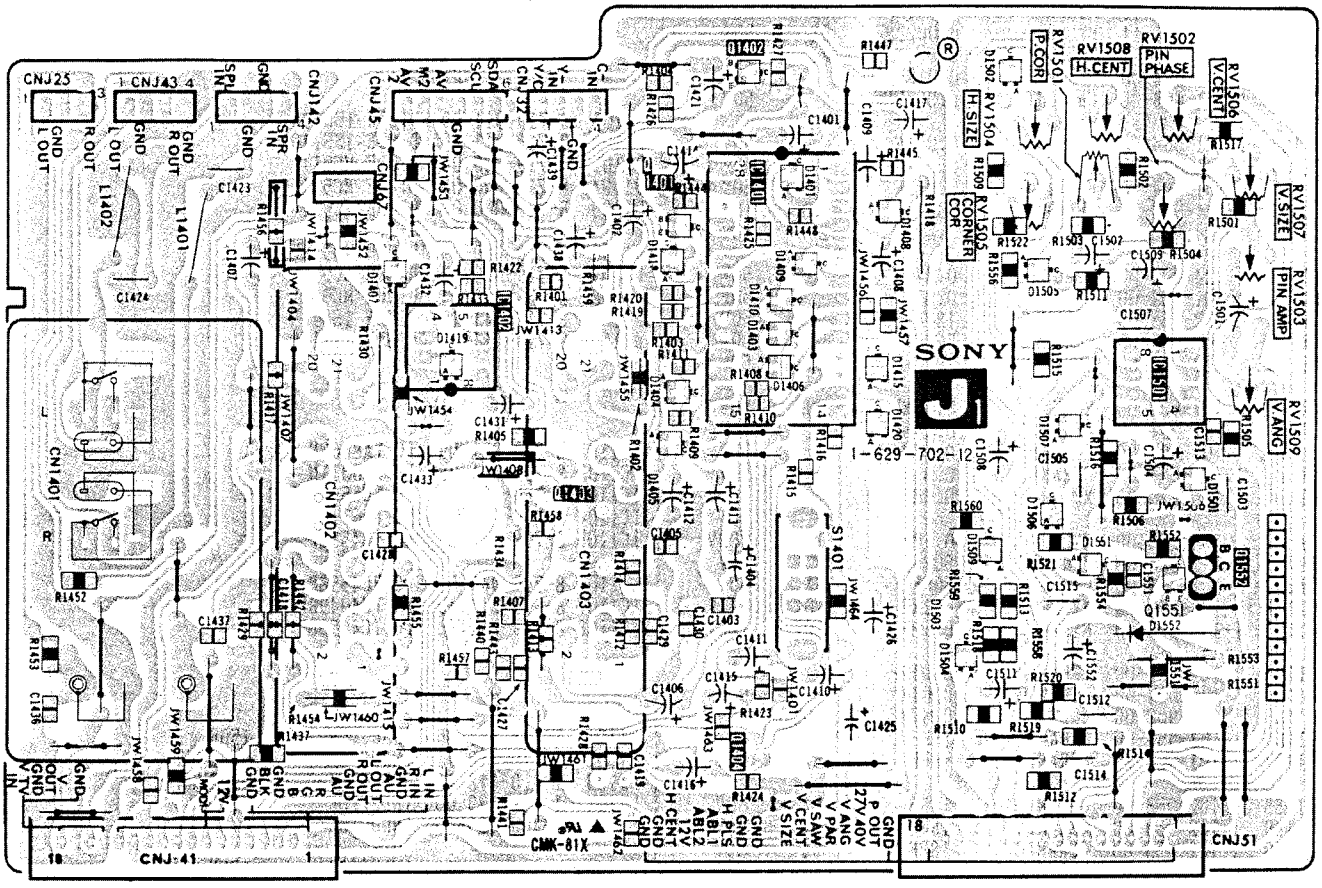
CNÐ 41

—J1 Board—


SONY
J1
1-629-702-12
CNJ25
CNJ43
CNJ42
CNJ45
CNJ47
CNJ32
CNJ41
CNJ51
CN1401
CN1402
CN1403
L1401
L1402
S1401
RV1501 P.COR
RV1502 PIN PHASE
RV1503 PIN AMP
RV1504 H.SIZE
RV1505 CORNER COR
RV1506 V.CENT
RV1507 V.SIZE
RV1508 H.CENT
RV1509 V.ANG
CMK-81X

A

SECTION 7
ELECTRICAL PARTS LIST

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- ✱ : Selected to yield optimum performance.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1296-532-A	A BOARD, COMPLETE				
		**********				
	*4-380-698-01	CASE (MAIN), SHIELD, A1				
	*4-380-699-01	CASE (UPPER LID), SHIELD, A1				
	*4-382-701-01	CASE (BOTTOM LID), SHIELD, A2				
		<CAPACITOR>				
C101	1-126-233-11	ELECT	22MF	20%	50V	
C102	1-126-103-11	ELECT	470MF	20%	16V	
C103	1-106-220-00	MYLAR	0.1MF	10%	100V	
C104	1-106-216-00	MYLAR	0.068MF	10%	100V	
C105	1-106-216-00	MYLAR	0.068MF	10%	100V	
C107	1-102-963-00	CERAMIC	33PF	5%	50V	
C108	1-124-963-11	ELECT	33MF	20%	16V	
C109	1-101-003-00	CERAMIC	0.0047MF		50V	
C110	1-124-791-11	ELECT	1MF	20%	50V	
C111	1-101-003-00	CERAMIC	0.0047MF		50V	
C112	1-101-003-00	CERAMIC	0.0047MF		50V	
C113	1-101-003-00	CERAMIC	0.0047MF		50V	
C114	1-124-963-11	ELECT	33MF	20%	16V	
C118	1-101-880-00	CERAMIC	47PF	5%	50V	
C119	1-126-101-11	ELECT	100MF	20%	16V	
C120	1-124-925-11	ELECT	2.2MF	20%	50V	
C121	1-101-003-00	CERAMIC	0.0047MF		50V	
C122	1-101-003-00	CERAMIC	0.0047MF		50V	
C123	1-101-003-00	CERAMIC	0.0047MF		50V	
C124	1-101-888-00	CERAMIC	68PF	5%	50V	
C125	1-101-888-00	CERAMIC	68PF	5%	50V	
C127	1-101-003-00	CERAMIC	0.0047MF		50V	
C128	1-124-963-11	ELECT	33MF	20%	16V	
C129	1-101-888-00	CERAMIC	68PF	5%	50V	
C130	1-101-004-00	CERAMIC	0.01MF		50V	
C131	1-101-006-00	CERAMIC	0.047MF		50V	
C133	1-101-003-00	CERAMIC	0.0047MF		50V	
C134	1-124-791-11	ELECT	1MF	20%	50V	
C158	1-124-963-11	ELECT	33MF	20%	16V	
C159	1-124-477-11	ELECT	47MF	20%	16V	
C161	1-124-477-11	ELECT	47MF	20%	16V	
C186	1-101-004-00	CERAMIC	0.01MF		50V	
C198	1-106-383-00	MYLAR	0.047MF	10%	100V	
		<FILTER>				
CD102	1-404-831-11	DISCRIMINATOR, CERAMIC				
CF101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)				
CF103	1-567-569-11	FILTER, CERAMIC				
SWF101	1-577-159-11	SAWF				
		<CONNECTOR>				
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				
CNA16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
CNA17	*1-564-886-11	PLUG, CONNECTOR 9P				
		<DIODE>				
D105	8-719-109-92	DIODE RD6.2ES-B1				
		<IC>				
IC101	8-759-909-08	IC TDA3541				
IC102	8-759-941-96	IC TDA2556				
		<COIL>				
L101	1-408-226-00	INDUCTOR	82UH			
L102	1-410-116-11	INDUCTOR	0.56MMH			
L103	1-408-406-00	INDUCTOR	5.6UH			
L104	1-408-410-00	INDUCTOR	12UH			
L106	1-408-415-00	INDUCTOR	33UH			
L107	1-408-406-00	INDUCTOR	5.6UH			
L108	1-408-412-00	INDUCTOR	18UH			
		<TRANSISTOR>				
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q107	8-729-173-38	TRANSISTOR 2SA733-K				
Q108	8-729-900-65	TRANSISTOR DTA144ES				
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q118	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q119	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q120	8-729-900-89	TRANSISTOR DTC144ES				
		<RESISTOR>				
R101	1-249-405-11	CARBON	100	5%	1/4W	
R102	1-249-423-11	CARBON	3.3K	5%	1/4W	
R103	1-249-433-11	CARBON	22K	5%	1/4W	
R106	1-247-891-00	CARBON	330K	5%	1/4W	
R107	1-249-421-11	CARBON	2.2K	5%	1/4W	
R108	1-249-421-11	CARBON	2.2K	5%	1/4W	
R109	1-249-423-11	CARBON	3.3K	5%	1/4W	
R110	1-249-412-11	CARBON	390	5%	1/4W	
R111	1-249-418-11	CARBON	1.2K	5%	1/4W	
R112	1-249-421-11	CARBON	2.2K	5%	1/4W	
R114	1-249-413-11	CARBON	470	5%	1/4W	
R115	1-249-413-11	CARBON	470	5%	1/4W	
R116	1-249-419-11	CARBON	1.5K	5%	1/4W	
R117	1-249-435-11	CARBON	33K	5%	1/4W	

A A1

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R118	1-249-429-11	CARBON	10K	5%	1/4W	
R119	1-249-417-11	CARBON	1K	5%	1/4W	
R121	1-249-429-11	CARBON	10K	5%	1/4W	
R122	1-249-436-11	CARBON	39K	5%	1/4W	
R124	1-249-423-11	CARBON	3.3K	5%	1/4W	
R125	1-249-429-11	CARBON	10K	5%	1/4W	
R126	1-249-436-11	CARBON	39K	5%	1/4W	
R127	1-249-432-11	CARBON	18K	5%	1/4W	
R128	1-249-432-11	CARBON	18K	5%	1/4W	
R129	1-249-429-11	CARBON	10K	5%	1/4W	
R130	1-249-429-11	CARBON	10K	5%	1/4W	
R132	1-249-414-11	CARBON	560	5%	1/4W	
R134	1-249-414-11	CARBON	560	5%	1/4W	
R135	1-249-426-11	CARBON	5.6K	5%	1/4W	
R145	1-249-417-11	CARBON	1K	5%	1/4W	
R147	1-249-417-11	CARBON	1K	5%	1/4W	
R148	1-249-413-11	CARBON	470	5%	1/4W	
R150	1-249-423-11	CARBON	3.3K	5%	1/4W	
R151	1-249-423-11	CARBON	3.3K	5%	1/4W	
R165	1-249-423-11	CARBON	3.3K	5%	1/4W	
R171	1-249-417-11	CARBON	1K	5%	1/4W	
R177	1-249-417-11	CARBON	1K	5%	1/4W	
R190	1-249-417-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

RV101	1-237-753-11	RES, ADJ, CARBON 47K	

<TRANSFORMER>

T101	1-404-493-00	COIL	
T102	1-404-493-00	COIL	
T103	1-404-493-00	COIL	

<TUNER>

TU101⚠	1-463-882-11	TUNER, ET (U-743)	

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1296-523-A	A1 BOARD, COMPLETE				
		**********				

<FILTER>

BP1101	1-236-238-11	FILTER, BAND PASS				
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)				
LP1101	1-236-356-11	FILTER, LOW PASS				
LP1102	1-236-356-11	FILTER, LOW PASS				

<CAPACITOR>

C1110	1-106-220-00	MYLAR	0.1MF	10%	100V	
C1111	1-101-004-00	CERAMIC	0.01MF		50V	
C1112	1-124-477-11	ELECT	47MF	20%	16V	
C1113	1-123-875-11	ELECT	10MF	20%	50V	
C1114	1-130-469-00	MYLAR	680PF	5%	50V	
C1115	1-124-477-11	ELECT	47MF	20%	16V	
C1116	1-103-727-00	POLYSTYRENE	0.0012MF	5%	50V	
C1117	1-126-176-11	ELECT	220MF	20%	10V	
C1118	1-103-727-00	POLYSTYRENE	0.0012MF	5%	50V	
C1119	1-126-101-11	ELECT	100MF	20%	16V	
C1120	1-124-477-11	ELECT	47MF	20%	16V	
C1121	1-130-469-00	MYLAR	680PF	5%	50V	
C1122	1-124-477-11	ELECT	47MF	20%	16V	
C1123	1-102-949-00	CERAMIC	12PF	5%	50V	
C1124	1-102-949-00	CERAMIC	12PF	5%	50V	
C1125	1-124-477-11	ELECT	47MF	20%	16V	
C1126	1-124-477-11	ELECT	47MF	20%	16V	
C1127	1-124-477-11	ELECT	47MF	20%	16V	
C1128	1-124-477-11	ELECT	47MF	20%	16V	
C1130	1-124-477-11	ELECT	47MF	20%	16V	
C1131	1-124-477-11	ELECT	47MF	20%	16V	
C1132	1-124-477-11	ELECT	47MF	20%	16V	
C1133	1-124-477-11	ELECT	47MF	20%	16V	
C1134	1-124-477-11	ELECT	47MF	20%	16V	
C1135	1-124-477-11	ELECT	47MF	20%	16V	
C1136	1-124-477-11	ELECT	47MF	20%	16V	
C1137	1-124-477-11	ELECT	47MF	20%	16V	
C1138	1-124-477-11	ELECT	47MF	20%	16V	
C1139	1-124-477-11	ELECT	47MF	20%	16V	
C1140	1-124-477-11	ELECT	47MF	20%	16V	
C1141	1-123-875-11	ELECT	10MF	20%	50V	
C1142	1-124-477-11	ELECT	47MF	20%	16V	
C1148	1-124-477-11	ELECT	47MF	20%	16V	
C1149	1-106-216-00	MYLAR	0.068MF	10%	100V	
C1150	1-108-795-11	MYLAR	0.0018MF	5%	50V	
C1151	1-108-792-11	MYLAR	0.001MF	5%	50V	
C1152	1-108-796-11	MYLAR	0.0022MF	5%	50V	
C1153	1-124-963-11	ELECT	33MF	20%	16V	
C1155	1-106-216-00	MYLAR	0.068MF	10%	100V	
C1156	1-108-795-11	MYLAR	0.0018MF	5%	50V	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C1157	1-108-792-11	MYLAR	0.001MF	5%	50V
C1158	1-108-796-11	MYLAR	0.0022MF	5%	50V
C1159	1-124-963-11	ELECT	33MF	20%	16V
C1161	1-101-004-00	CERAMIC	0.01MF		50V
C1162	1-101-003-00	CERAMIC	0.0047MF		50V
C1163	1-101-004-00	CERAMIC	0.01MF		50V
C1164	1-101-004-00	CERAMIC	0.01MF		50V
C1165	1-101-004-00	CERAMIC	0.01MF		50V
C1166	1-124-963-11	ELECT	33MF	20%	16V
C1167	1-124-902-00	ELECT	0.47MF	20%	50V
C1168	1-124-902-00	ELECT	0.47MF	20%	50V
C1169	1-101-004-00	CERAMIC	0.01MF		50V
C1170	1-102-953-00	CERAMIC	18PF	5%	50V
C1171	1-101-884-00	CERAMIC	56PF	5%	50V
C1172	1-102-953-00	CERAMIC	18PF	5%	50V
C1173	1-124-902-00	ELECT	0.47MF	20%	50V
C1174	1-101-004-00	CERAMIC	0.01MF		50V
C1175	1-101-004-00	CERAMIC	0.01MF		50V
C1176	1-101-004-00	CERAMIC	0.01MF		50V
C1177	1-106-220-00	MYLAR	0.1MF	10%	100V
C1178	1-106-220-00	MYLAR	0.1MF	10%	100V
C1179	1-101-884-00	CERAMIC	56PF	5%	50V
C1180	1-101-884-00	CERAMIC	56PF	5%	50V
C1181	1-106-220-00	MYLAR	0.1MF	10%	100V
C1182	1-106-220-00	MYLAR	0.1MF	10%	100V
C1183	1-101-004-00	CERAMIC	0.01MF		50V
C1184	1-101-004-00	CERAMIC	0.01MF		50V
C1185	1-124-902-00	ELECT	0.47MF	20%	50V
C1186	1-102-953-00	CERAMIC	18PF	5%	50V
C1187	1-101-884-00	CERAMIC	56PF	5%	50V
C1188	1-102-953-00	CERAMIC	18PF	5%	50V
C1189	1-102-953-00	CERAMIC	18PF	5%	50V
C1190	1-102-953-00	CERAMIC	18PF	5%	50V
C1191	1-102-953-00	CERAMIC	18PF	5%	50V
C1192	1-101-004-00	CERAMIC	0.01MF		50V
C1193	1-124-963-11	ELECT	33MF	20%	16V
C1194	1-101-888-00	CERAMIC	68PF	5%	50V
C1195	1-102-816-00	CERAMIC	120PF	5%	50V
C1196	1-102-816-00	CERAMIC	120PF	5%	50V

<CONNECTOR>

CNA114*	1-564-880-31	PLUG, CONNECTOR 3P
CNA116*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
CNA117*	1-564-886-21	PLUG, CONNECTOR 9P
CNA118*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
CNA119*	1-564-881-11	PLUG, CONNECTOR 4P

<TRIMMER>

CV1101	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)

REF.NO.	PART NO.	DESCRIPTION	REMARK
CV1102	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	

<DIODE>

D1101	8-719-911-19	DIODE 1SS119
D1102	8-719-911-19	DIODE 1SS119
D1103	8-719-000-04	DIODE MC911
D1104	8-719-000-06	DIODE MC921
D1105	8-719-000-04	DIODE MC911
D1106	8-719-109-89	DIODE RD5.6ES-B2
D1107	8-719-000-04	DIODE MC911
D1108	8-719-000-04	DIODE MC911
D1109	8-719-911-19	DIODE 1SS119
D1110	8-719-911-19	DIODE 1SS119

<IC>

IC1101	8-759-231-09	IC TA8662N
IC1102	8-759-231-28	IC TC6011N
IC1103	8-759-230-69	IC TC5563APL-12L
IC1104	8-759-231-29	IC TD6710AN
IC1105	8-759-945-58	IC RC4558P
IC1106	8-759-945-58	IC RC4558P
IC1107	8-759-240-49	IC TC4049BP
IC1108	8-759-240-53	IC TC4053BP

<COIL>

L1101	1-408-411-00	INDUCTOR	15UH
L1102	1-410-118-11	INDUCTOR	0.82MMH
L1103	1-410-118-11	INDUCTOR	0.82MMH
L1104	1-408-429-00	INDUCTOR	470UH
L1105	1-408-429-00	INDUCTOR	470UH
L1108	1-408-411-00	INDUCTOR	15UH
L1109	1-408-399-00	INDUCTOR	1.5UH

<TRANSISTOR>

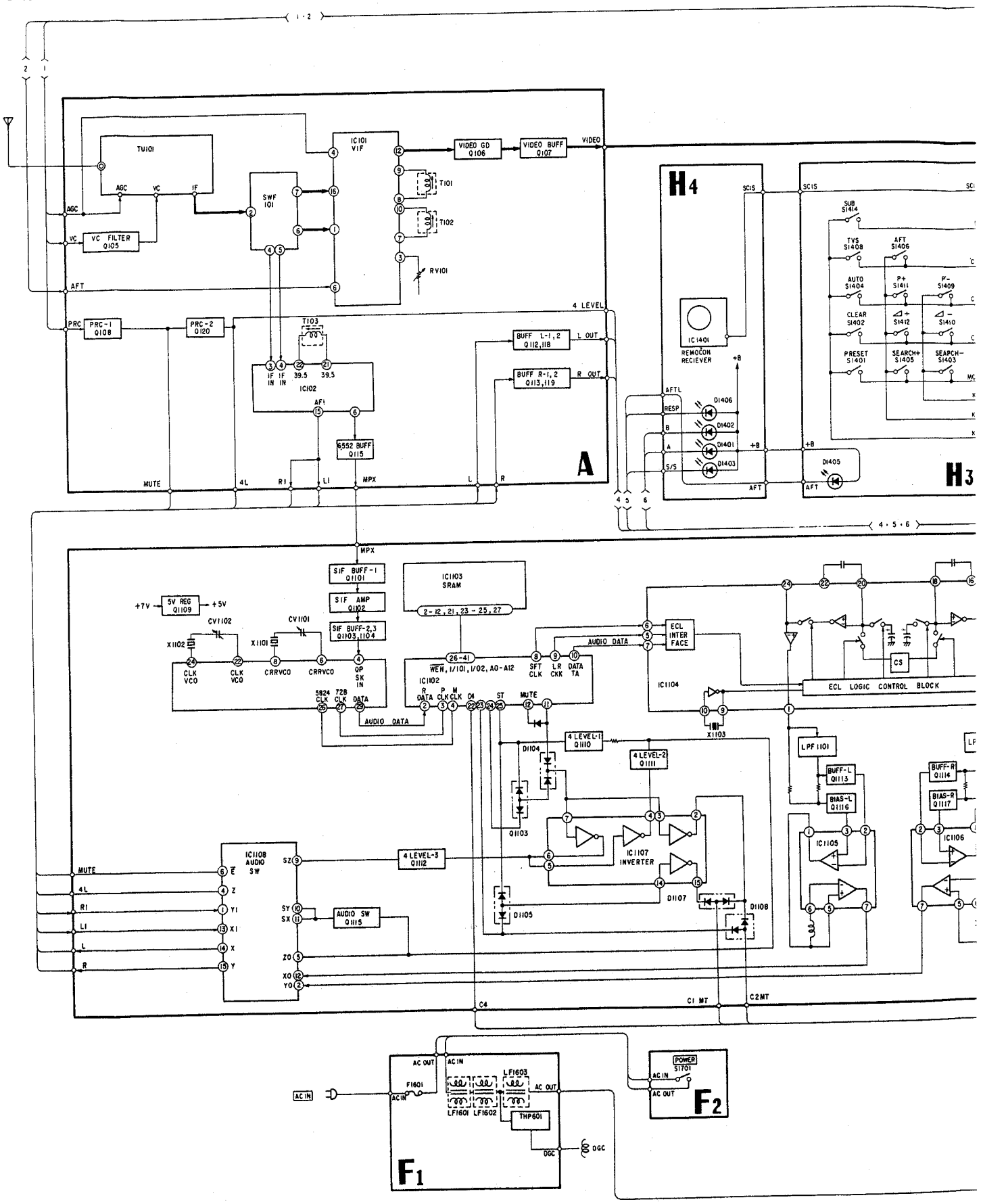
Q1101	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1102	8-729-203-28	TRANSISTOR 2SC2216
Q1103	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1104	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1109	8-729-177-32	TRANSISTOR 2SD773-3
Q1110	8-729-900-89	TRANSISTOR DTC144ES
Q1111	8-729-900-89	TRANSISTOR DTC144ES
Q1112	8-729-900-89	TRANSISTOR DTC144ES
Q1113	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1114	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1115	8-729-900-89	TRANSISTOR DTC144ES
Q1116	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1117	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

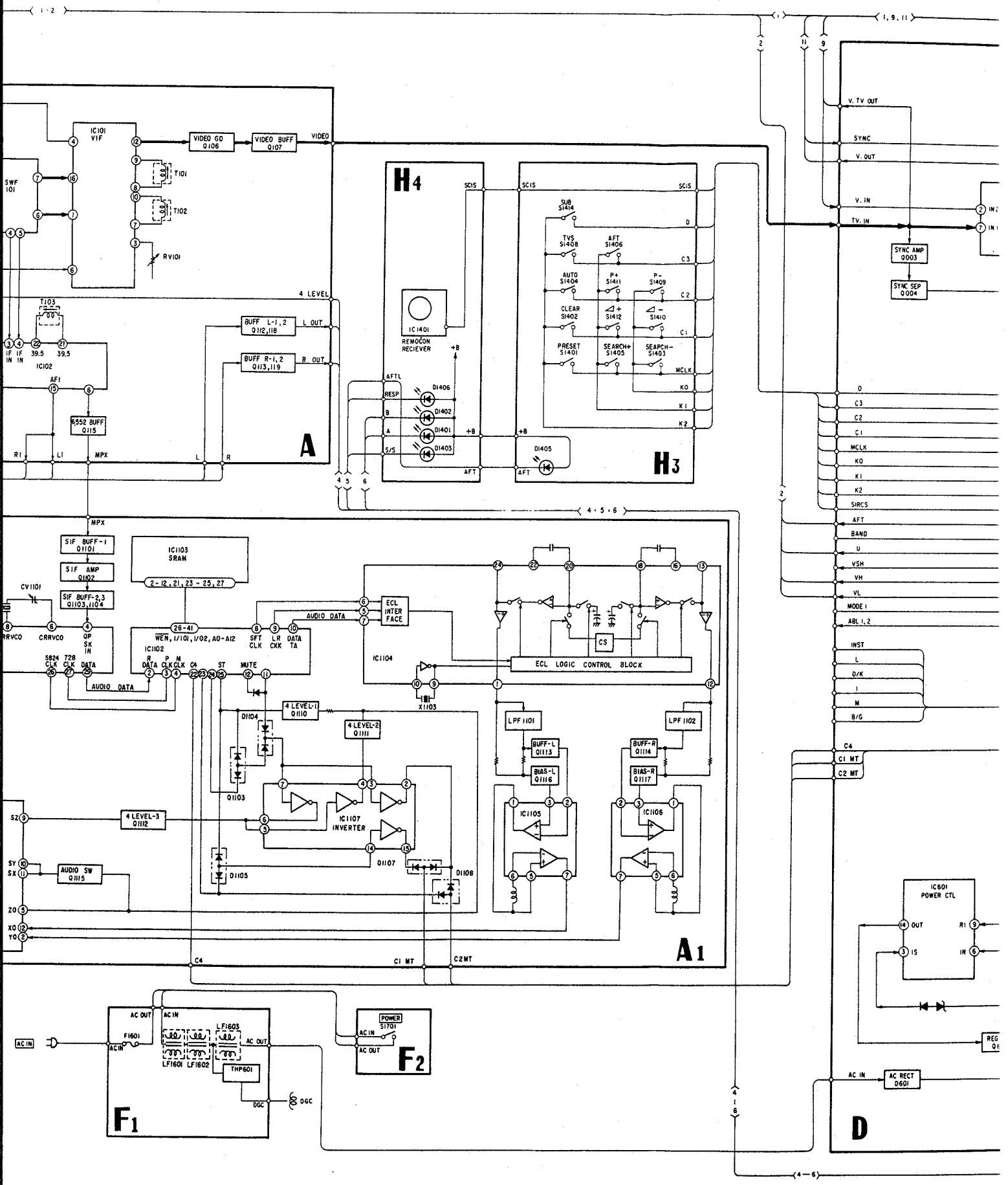
R1101	1-249-411-11	CARBON	330	5%	1/4W
R1102	1-249-417-11	CARBON	1K	5%	1/4W
R1103	1-249-417-11	CARBON	1K	5%	1/4W
R1104	1-249-403-11	CARBON	68	5%	1/4W
R1105	1-249-417-11	CARBON	1K	5%	1/4W
R1106	1-249-416-11	CARBON	820	5%	1/4W
R1107	1-249-409-11	CARBON	220	5%	1/4W
R1108	1-249-413-11	CARBON	470	5%	1/4W
R1109	1-249-437-11	CARBON	47K	5%	1/4W
R1110	1-249-437-11	CARBON	47K	5%	1/4W

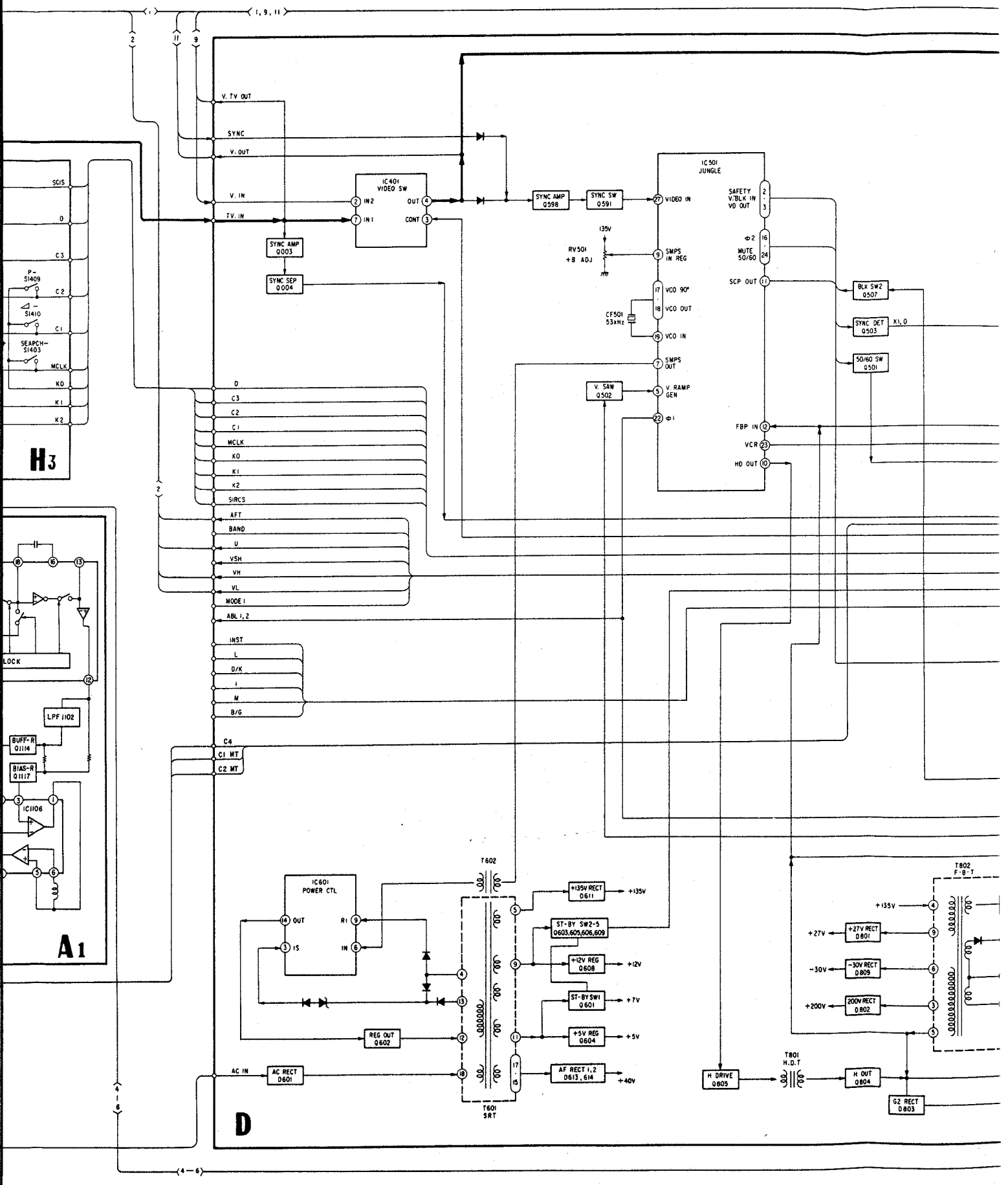
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM



SECTION 5
DIAGRAMS

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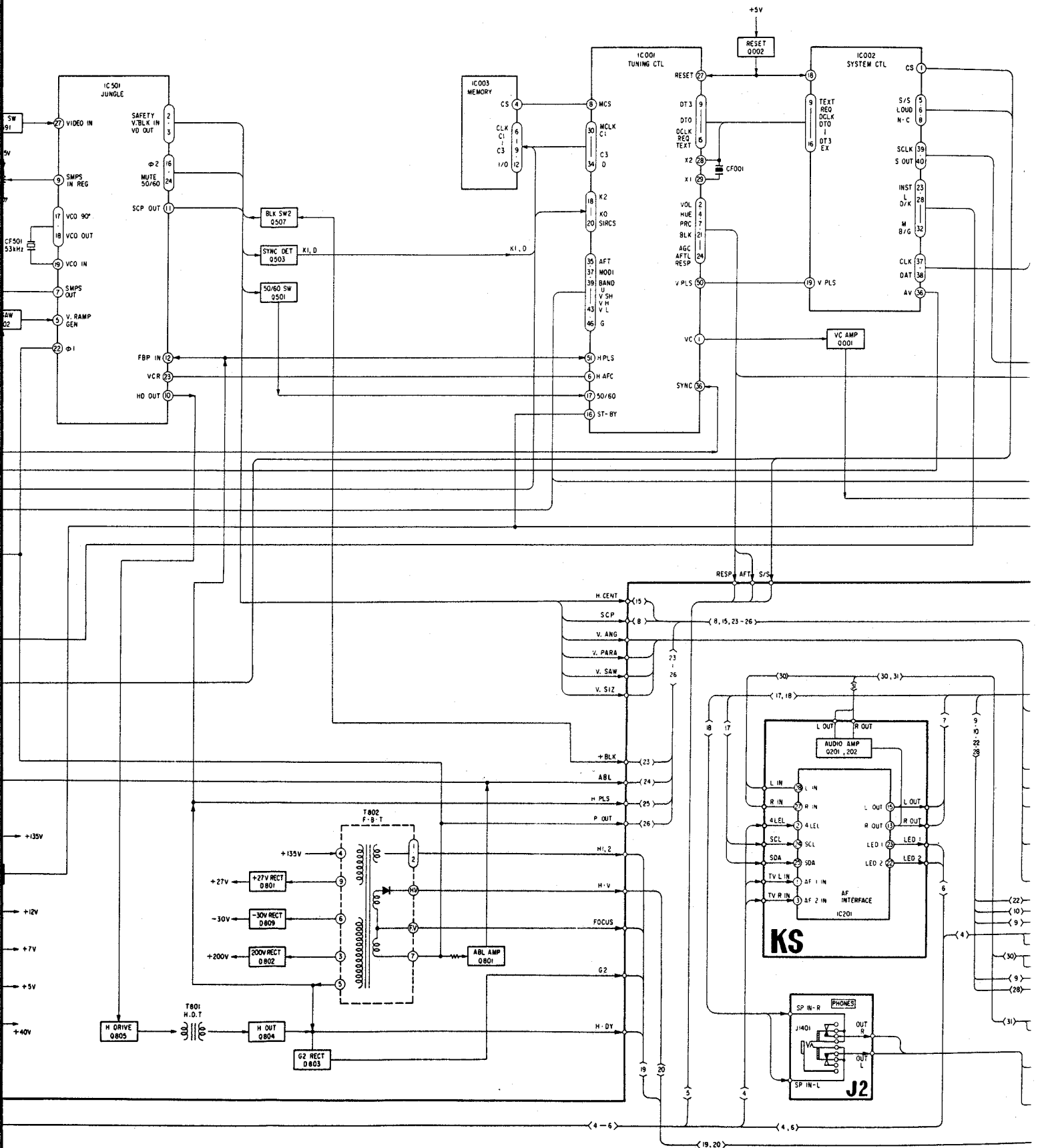
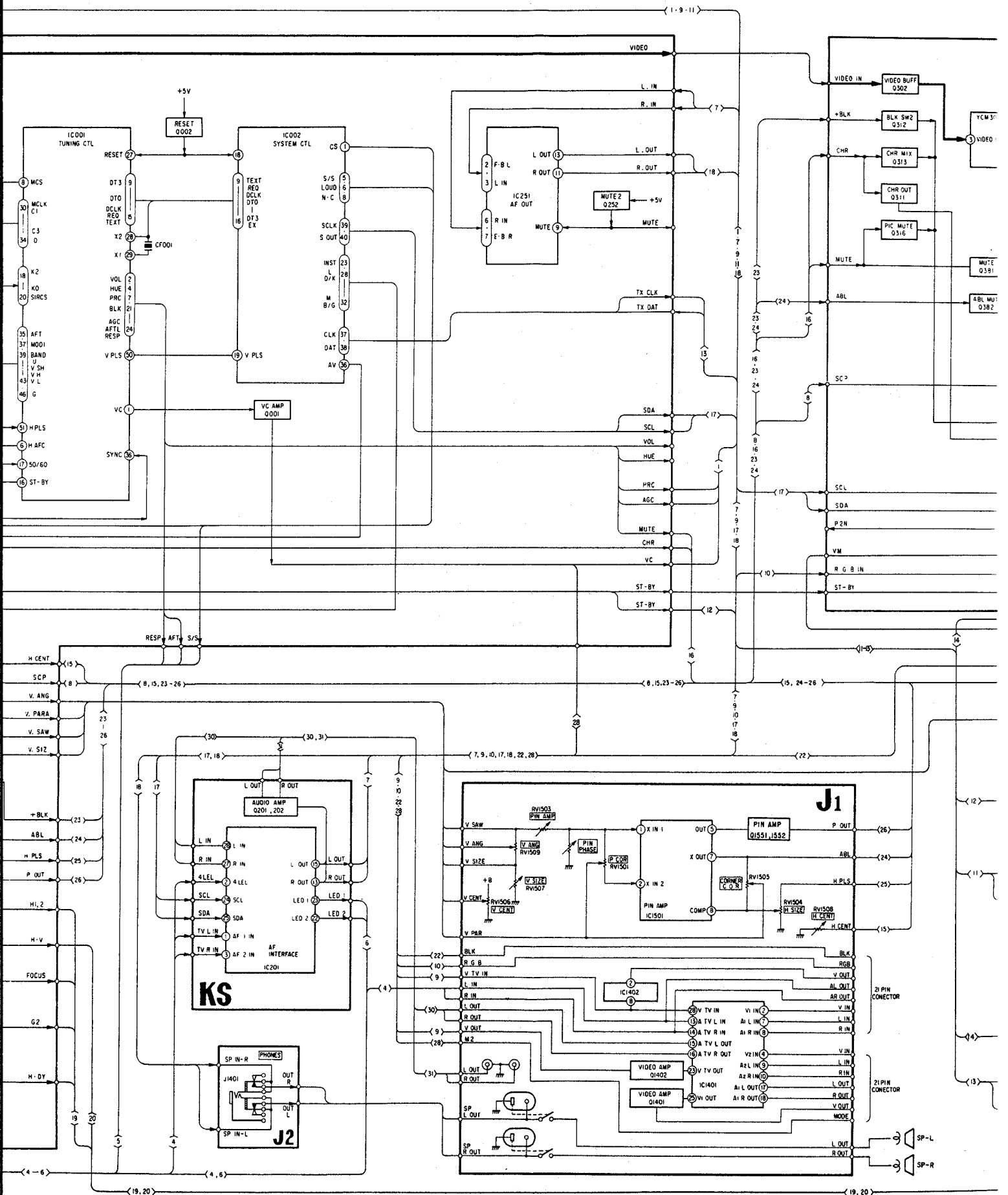
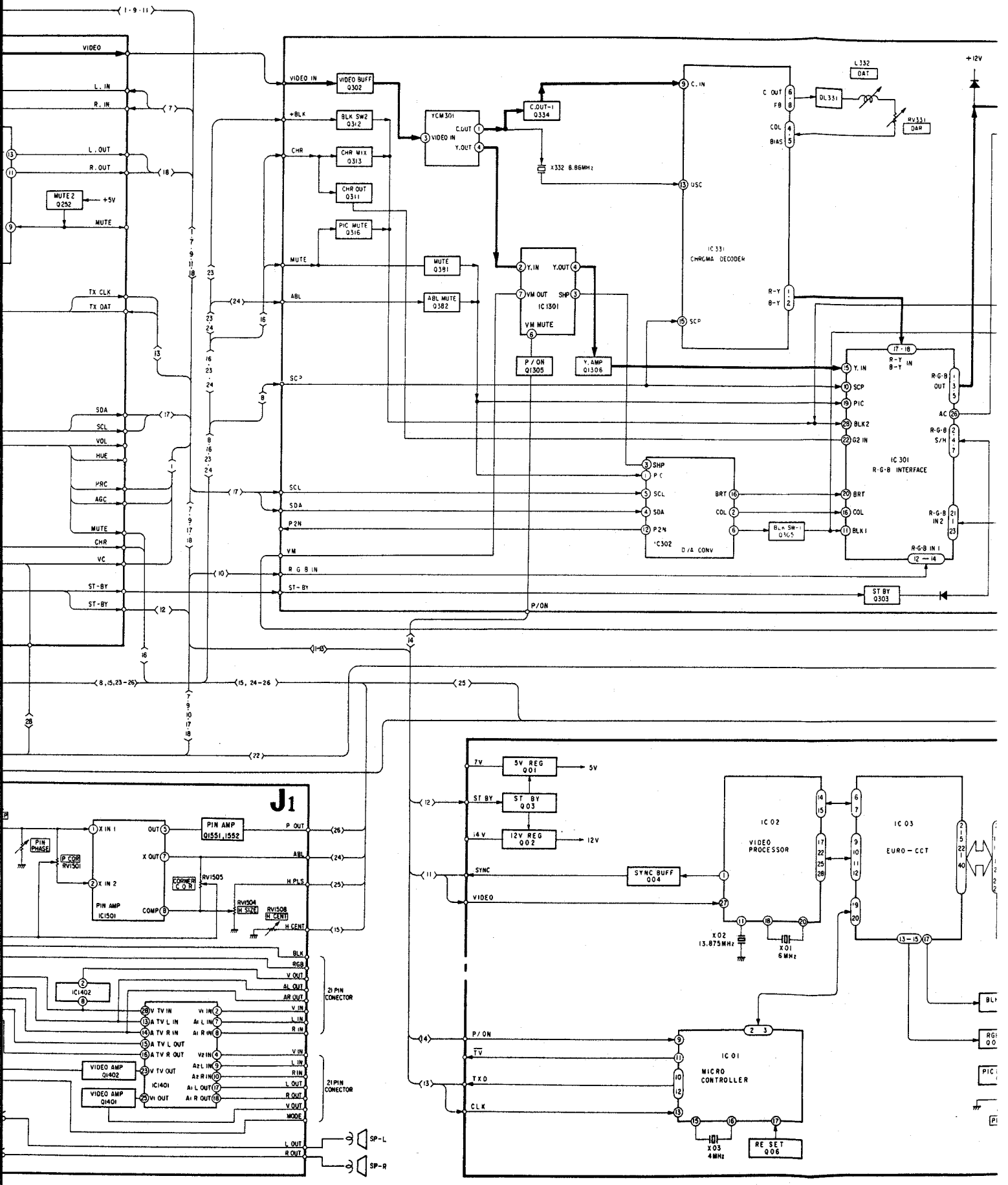
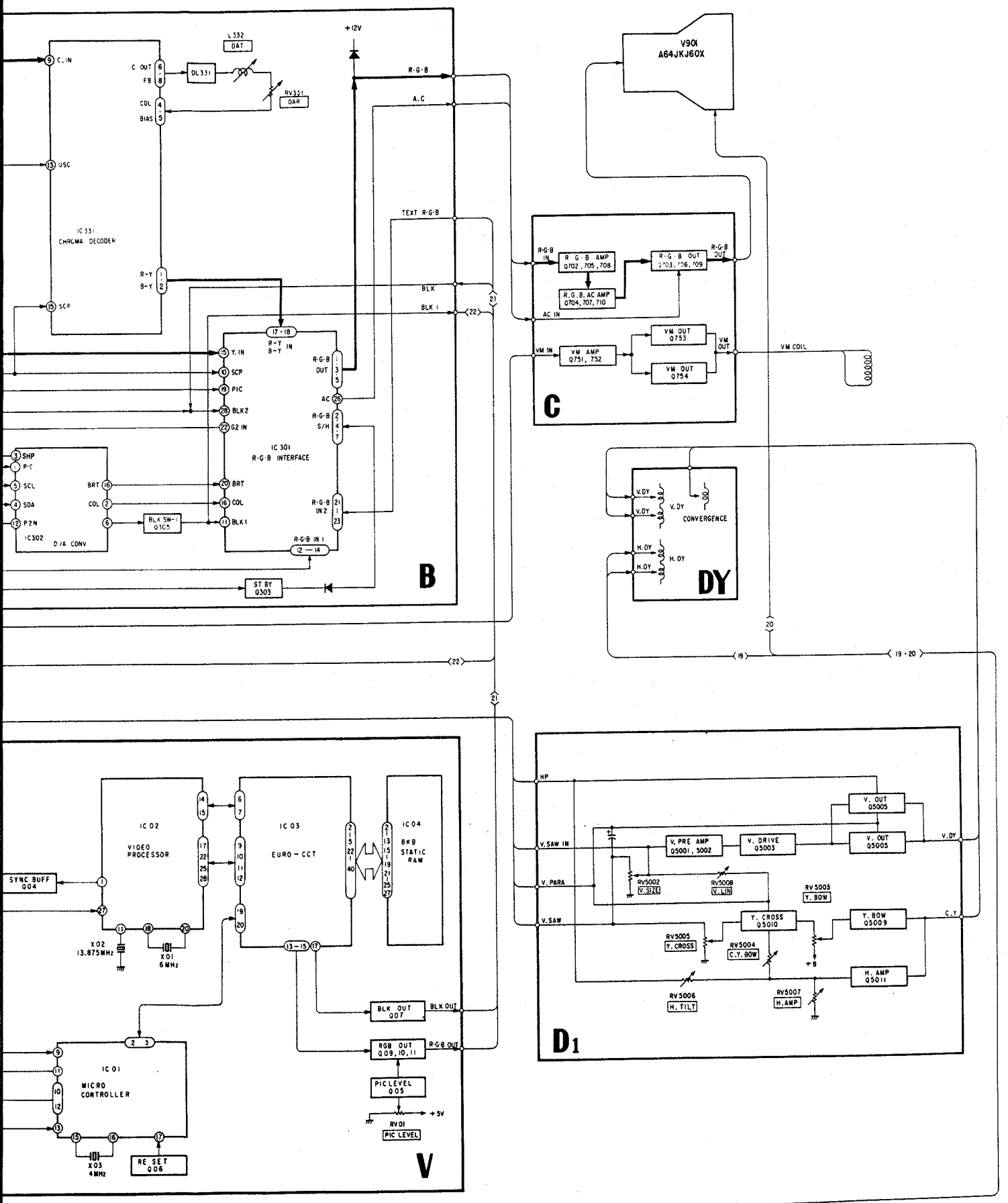
SYNC
V. OUT
V. IN
TV. IN
IC401 VIDEO SW
IN2
IN1
OUT
CONT
SYNC AMP Q003
SYNC SEP Q004
SYNC AMP Q598
SYNC SW Q591
IC501 JUNGLE
VIDEO IN
SMPS IN REG
VCO 90°
VCO OUT
VCO IN
SMPS OUT
V. RAMP GEN
Φ1
V. SAW Q502
RV501 +B ADJ
135V
CF501 53kHz
SAFETY V.BLK IN VD OUT
Φ2
MUTE 50/60
SCP OUT
FBP IN
VCR
HD OUT
BLK SW2 Q507
SYNC DET Q503
50/60 SW Q501
D
C3
C2
C1
MCLK
KO
K1
K2
SIRCS
AFT
BAND
U
VSH
VH
VL
MODE I
ABL 1, 2
INST
L
D/K
I
M
B/G
C4
C1 MT
C2 MT
SCIS
P-S1409
-S1410
SEAPCH-S1403
H3
LOCK
LPF 1102
BUFF-R Q1114
BIAS-R Q1117
IC1106
A1
T602
IC601 POWER CTL
OUT
IS
RI
IN
REG OUT Q602
AC IN
AC RECT D601
+135V RECT D611
+135V
ST-BY SW2-5 D603,605,606,609
+12V REG Q608
+12V
ST-BY SW1 Q601
+7V
+5V REG Q604
+5V
AF RECT 1,2 D613, 614
+40V
T601 SRT
T802 F·B·T
+135V
+27V
+27V RECT D801
-30V
-30V RECT D809
+200V
200V RECT D802
H DRIVE Q805
T801 H.D.T
H OUT Q804
G2 RECT D803
D

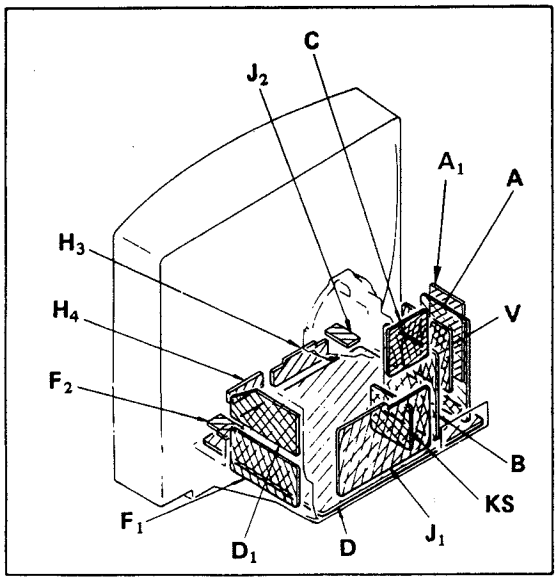

IC501
JUNGLE
VIDEO IN
SMPS IN REG
VCO 90°
VCO OUT
VCO IN
SMPS OUT
V. RAMP GEN
Φ1
SAFETY V.BLK IN VO OUT
Φ2
MUTE 50/60
SCP OUT
FBP IN
VCR
HD OUT
CF501 53kHz
BLK SW2 Q507
SYNC DET Q503
50/60 SW Q501
KI, O
IC003
MEMORY
CS
CLK
I/O
IC001
TUNING CTL
MCS
MCLK
K2
KO
SIRCS
AFT
MODI
BAND
U
V SH
V M
V L
G
H PLS
H AFC
50/60
ST-BY
RESET
DT3
DTO
OCLK
REQ
TEXT
X2
X1
CF001
VOL
HUE
PRC
BLK
AGC
AFTL
RESP
V PLS
VC
SYNC
+5V
RESET Q002
IC002
SYSTEM CTL
TEXT REQ OCLK DTO DT3 EX
S/S LOUD N·C
SCLK
S OUT
INST L D/K M B/G
CLK
DAT
AV
VC AMP Q001
RESP AFT S/S
H.CENT
SCP
V. ANG
V. PARA
V. SAW
V. SIZ
+BLK
ABL
H PLS
P OUT
H1, 2
H·V
FOCUS
G2
H·DY
T802
F·B·T
+135V
+27V RECT D801
-30V RECT D809
+200V RECT D802
ABL AMP Q801
T801
H.D.T
H DRIVE Q805
H OUT Q804
G2 RECT D803
+135V
+12V
+7V
+5V
+40V
AUDIO AMP Q201, 202
L OUT
R OUT
L IN
R IN
4 LEL
SCL
SDA
TV L IN
TV R IN
AF 1 IN
AF 2 IN
LED 1
LED 2
AF INTERFACE
IC201
KS
PHONES
SP IN-R
SP IN-L
J1401
VR
OUT R
OUT L
J2
(8, 15, 23 - 26)
(30)
(30, 31)
(17, 18)
(22)
(10)
(9)
(28)
(31)
(4)
(4 - 6)
(4, 6)
(19, 20)


VIDEO
L. IN
R. IN
+5V
RESET Q002
IC001 TUNING CTL
IC002 SYSTEM CTL
IC251 AF OUT
F-B L
L IN
R IN
E-B R
L. OUT
R. OUT
MUTE
MUTE 2 Q252
VIDEO IN
VIDEO BUFF Q302
+BLK
BLK SW2 Q312
CHR
CHR MIX Q313
CHR OUT Q311
PIC MUTE Q316
ABL
SCP
P2N
VM
R G B IN
ST-BY
TX CLK
TX DAT
SDA
SCL
VOL
HUE
PRC
AGC
VC
VC AMP Q001
V PLS
SYNC
RESP
AFT
S/S
H CENT
V. ANG
V. PARA
V. SAW
V. SIZ
H PLS
P OUT
H1, 2
H-V
FOCUS
G2
H-DY
AUDIO AMP Q201, 202
AF INTERFACE IC201
KS
J1
J2
PIN AMP Q1551, 1552
PIN AMP IC1501
V ANG RV1509
V SIZE RV1507
H SIZE RV1504
H CENT RV1508
CORNER RV1505
P COR RV1501
PIN PHASE
RV1503 PIN AMP
RV1506 V CENT
IC1402
IC1401
VIDEO AMP Q1402
VIDEO AMP Q1401
21 PIN CONECTOR
PHONES
SP IN-R
SP IN-L
SP-L
SP-R


VIDEO
L. IN
R. IN
L. OUT
R. OUT
MUTE 2 Q252
+5V
MUTE
TX CLK
TX DAT
SDA
SCL
VOL
HUE
PRC
AGC
MUTE
CHR
VC
ST-BY
ST-BY
VIDEO IN
VIDEO BUFF Q302
+BLK
BLK SW2 Q312
CHR
CHR MIX Q313
CHR OUT Q311
PIC MUTE Q316
MUTE
MUTE Q381
ABL
ABL MUTE Q382
SCP
SCL
SDA
P2N
VM
R G B IN
ST-BY
P/ON
YCM301
C.OUT
VIDEO IN
Y.OUT
C.OUT-1 Q334
X332 8.86MHz
IC1301
Y.IN
Y.OUT
VM OUT
SHP
VM MUTE
P/ON Q1305
Y.AMP Q1306
C.IN
USC
SCP
IC331
CHROMA DECODER
C OUT
FB
COL
BIAS
DL331
L332 DAT
RV331 DAR
+12V
R-Y
B-Y
17 - 18
R-Y IN
B-Y IN
Y. IN
SCP
PIC
BLK2
G2 IN
BRT
COL
BLK1
IC301
R-G-B INTERFACE
R-G-B OUT
AC
R-G-B S/H
R-G-B IN 2
R-G-B IN 1
12 — 14
SHP
P C
SCL
SDA
P2N
IC302
D/A CONV
BRT
COL
BLK SW-1 Q305
ST BY Q303
J1
PIN PHASE
P COR RV1501
X IN 1
X IN 2
PIN AMP IC1501
OUT
X OUT
COMP
PIN AMP Q1551,1552
P OUT
ABL
H.PLS
H.CENT
CORNER COR
RV1505
RV1504 H SIZE
RV1506 H CENT
BLK
RGB
V OUT
AL OUT
AR OUT
21 PIN CONECTOR
IC1402
V TV IN
A TV L IN
A TV R IN
A TV L OUT
A TV R OUT
V1 IN
A1 L IN
A1 R IN
V2 IN
A2 L IN
A2 R IN
A1 L OUT
A1 R OUT
V IN
L IN
R IN
L OUT
R OUT
V OUT
MODE
21 PIN CONECTOR
VIDEO AMP Q1402
VIDEO AMP Q1401
V TV OUT
V1 OUT
IC1401
L OUT
R OUT
SP-L
SP-R
7V
5V REG Q01
5V
ST BY
ST BY Q03
14 V
12V REG Q02
12V
SYNC
SYNC BUFF Q04
VIDEO
IC 02
VIDEO PROCESSOR
IC 03
EURO - CCT
X02 13.875MHz
X01 6 MHz
P/ON
TV
TXD
CLK
IC 01
MICRO CONTROLLER
X03 4MHz
RE SET Q06


+12V
L332
DAT
C. IN
C OUT
FB
DL331
RV331
DAR
CDL
BIAS
USC
IC331
CHROMA DECODER
SCP
R-Y
B-Y
R-G-B
A.C
TEXT R-G-B
BLK
BLK I
21
22
V901
A64JKJ60X
R-G-B IN
R.G.B AMP
Q702, 705, 708
R.G.B OUT
Q703, 706, 709
R.G.B, AC AMP
Q704, 707, 710
AC IN
VM IN
VM AMP
Q751, 752
VM OUT
Q753
VM OUT
Q754
VM OUT
VM COIL
C
17 - 18
R-Y
B-Y IN
Y. IN
SCP
PIC
BLK2
G2 IN
R-G-B
OUT
AC
R-G-B
S/H
IC301
R-G-B INTERFACE
SHP
PIC
SCL
SDA
P2N
IC302
D/A CONV
BRT
COL
BLK SW-I
Q305
BRT
COL
BLK1
R-G-B
IN 2
R-G-B IN 1
12 — 14
ST BY
Q303
B
V.DY
V.DY
V. DY
CONVERGENCE
H.DY
H.DY
H. DY
DY
20
19
19 - 20
22
21
HP
V. SAW IN
V. PARA
V. SAW
V. PRE AMP
Q5001, 5002
V. DRIVE
Q5003
V. OUT
Q5005
V. OUT
Q5005
V.DY
RV5002
V. SIZE
RV5008
V. LIN
RV5003
V. BOW
Y. CROSS
Q5010
Y. BOW
Q5009
C.Y
RV5005
Y. CROSS
RV5004
C.Y. BOW
+B
H. AMP
Q5011
RV5006
H. TILT
RV5007
H. AMP
D1
IC02
VIDEO
PROCESSOR
IC03
EURO-CCT
IC04
8KB
STATIC
RAM
SYNC BUFF
Q04
X02
13.875MHz
X01
6MHz
13 — 15
17
BLK OUT
Q07
BLK OUT
RGB OUT
Q09, 10, 11
R-G-B OUT
PIC LEVEL
Q05
+5V
RV01
PIC LEVEL
IC01
MICRO
CONTROLLER
X03
4MHz
RESET
Q06
V

5-2. CIRCUIT BOARDS LOCATION



Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm Rating electrical power 1/4W

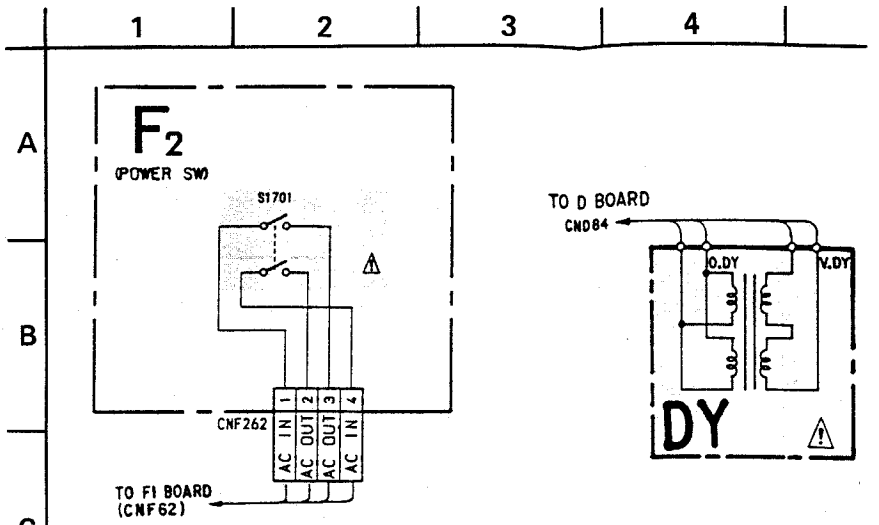
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- ▬▬ : B+ bus.
- ▬ ▬ : B− bus.
- : signal pass.

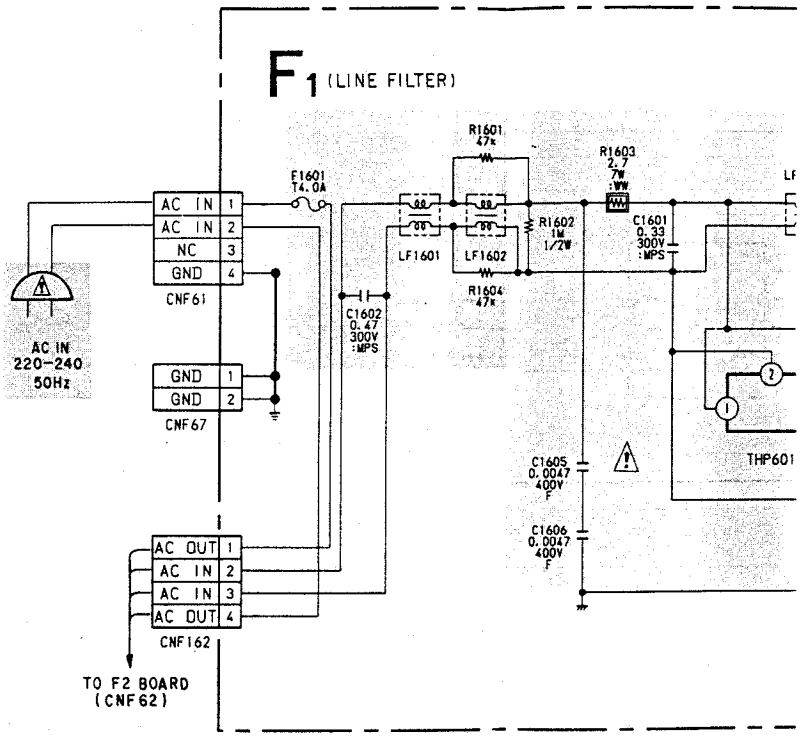
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-BL	MICRO INDUCTOIR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED PORYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

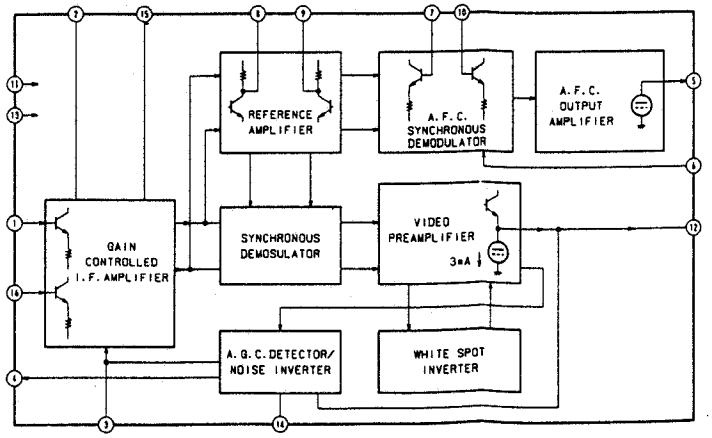
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-3. SCHEMATIC DIAGRAM

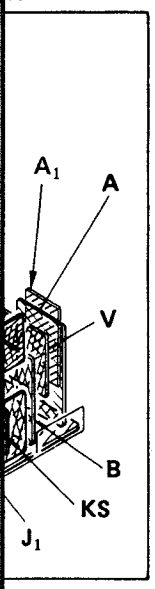




A BOARD IC101 TDA3541



5-3. SCHEMATIC DIAGRAM



vise noted.
icated except for

not have one for

ave characteristic

gital multimeter.
bar signal input.

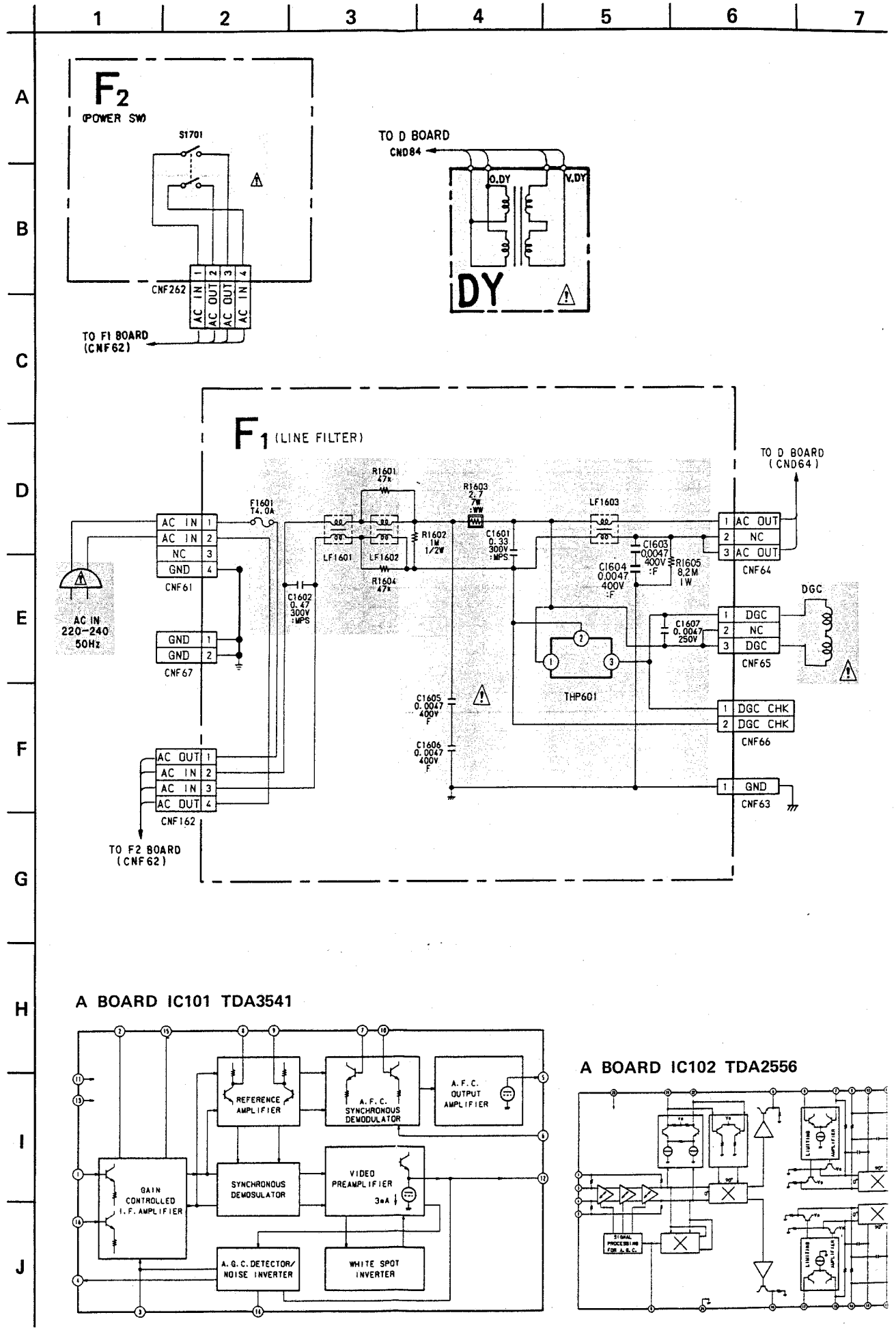
to normal produc-

CARBON
FUSIBLE
WIREWOUND
CEMENT

ESTER
PROPYLENE

RE

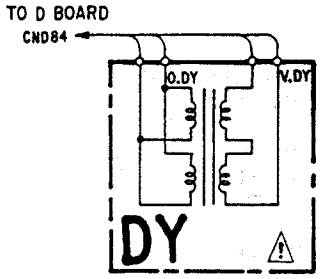
shading and mark
eplace only with

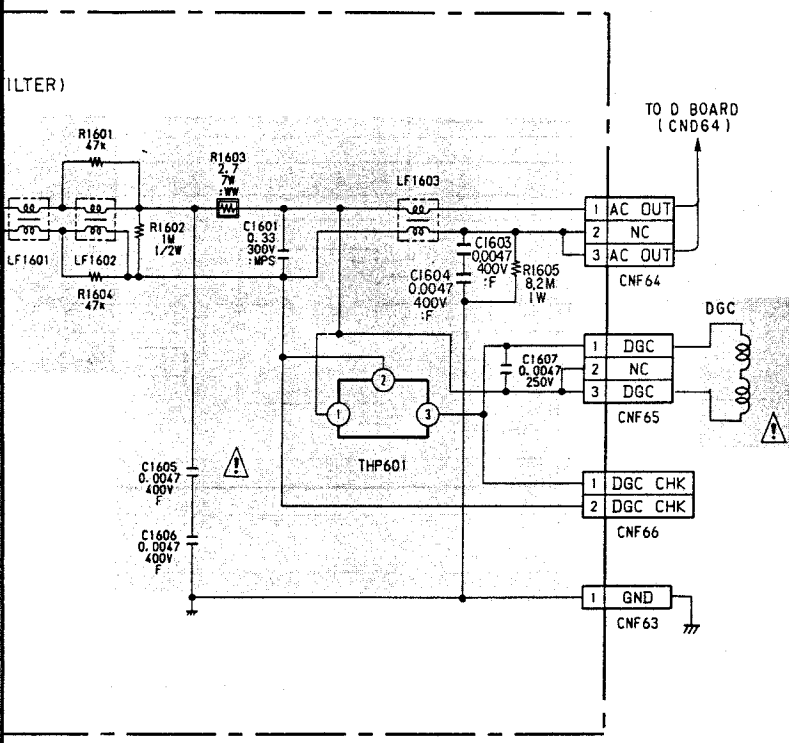


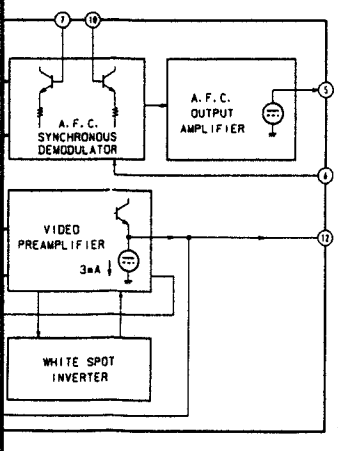
A BOARD IC101 TDA3541

A BOARD IC102 TDA2556

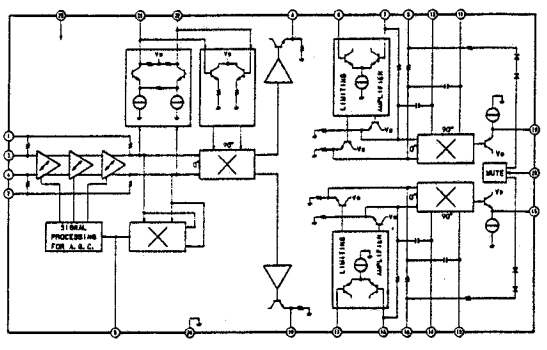
3 4 5 6 7 8 9 10 11

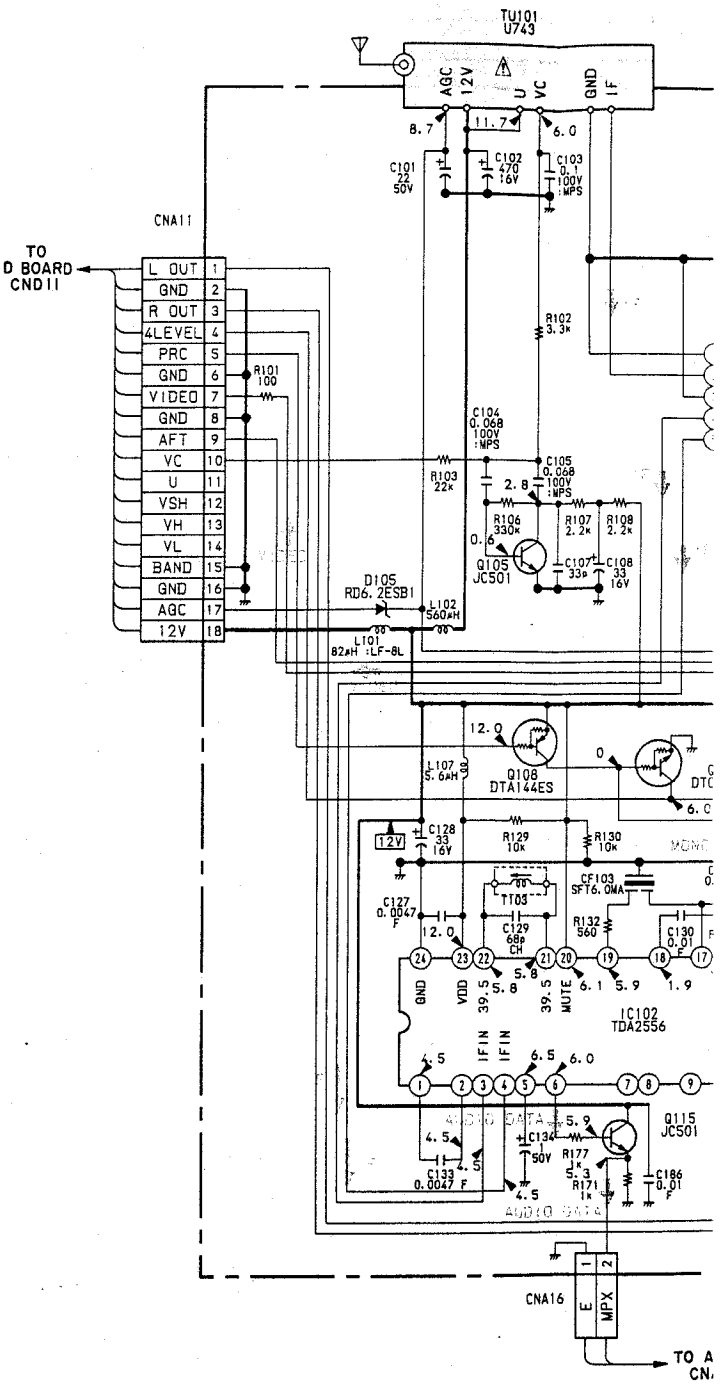




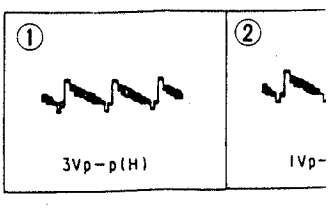


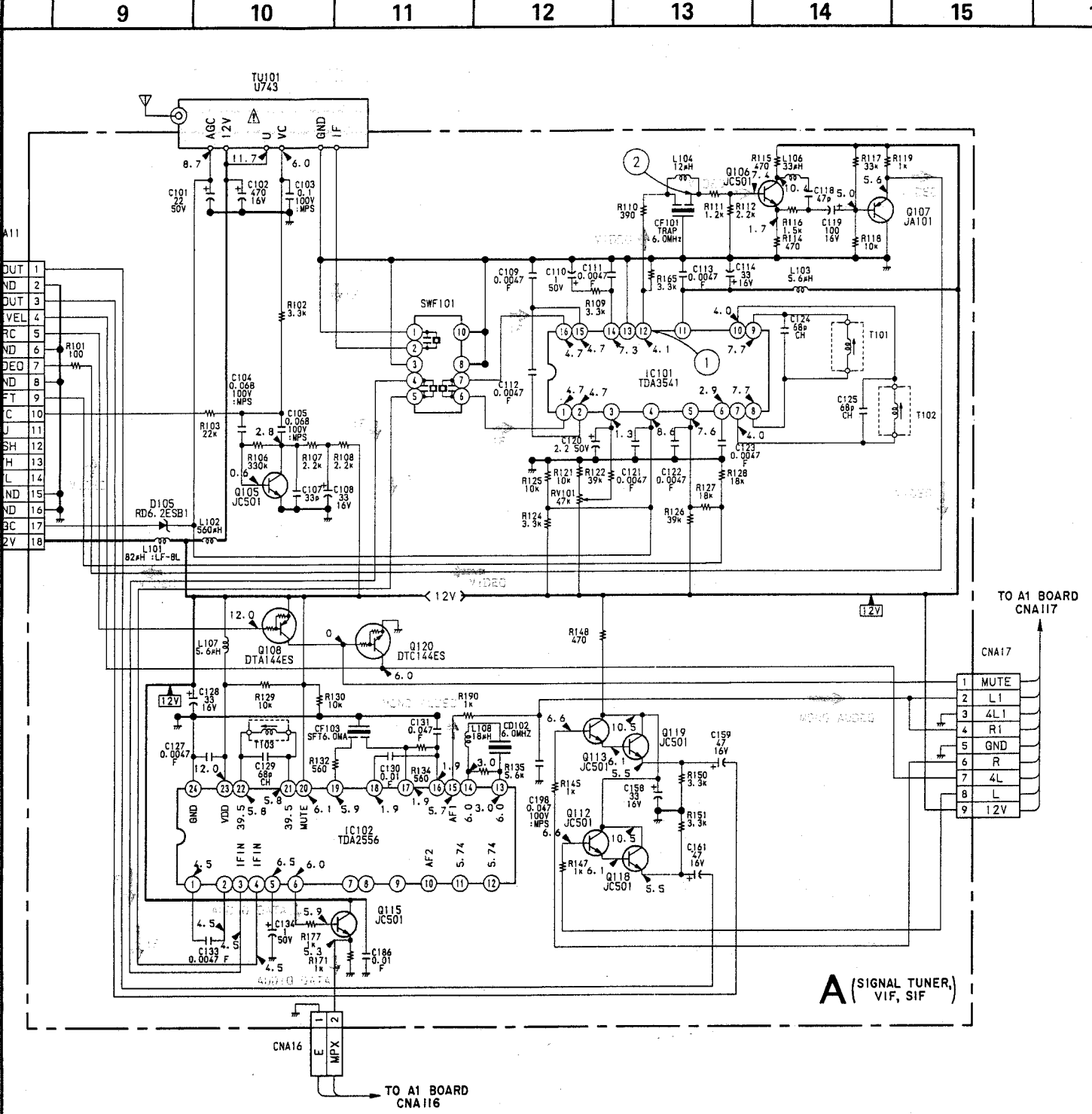
A BOARD IC102 TDA2556



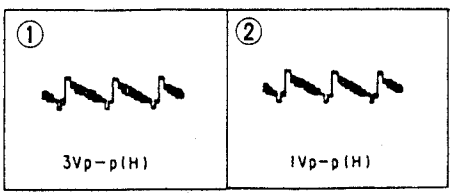


• A BOARD WAVEFORM



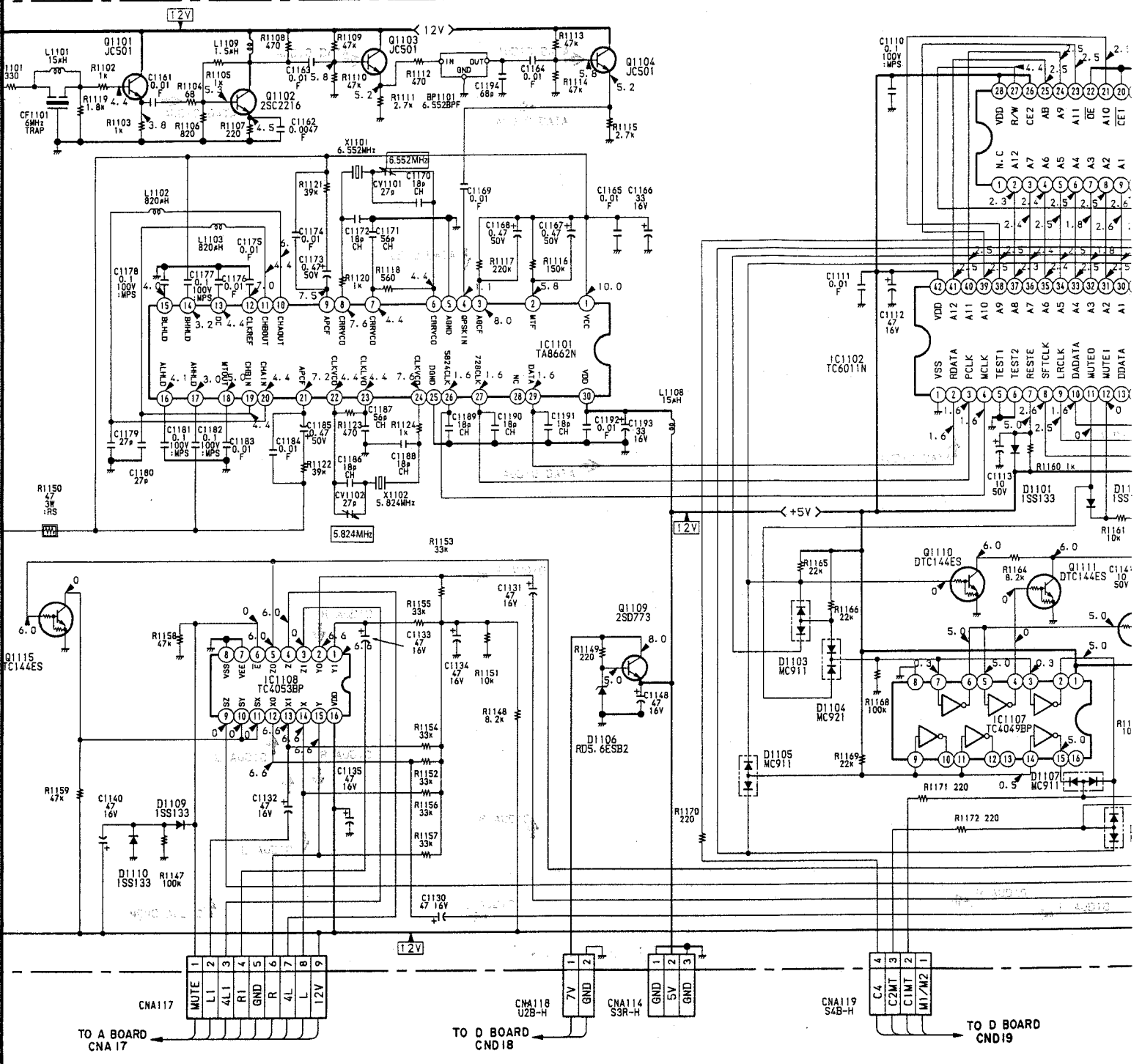


• A BOARD WAVEFORM



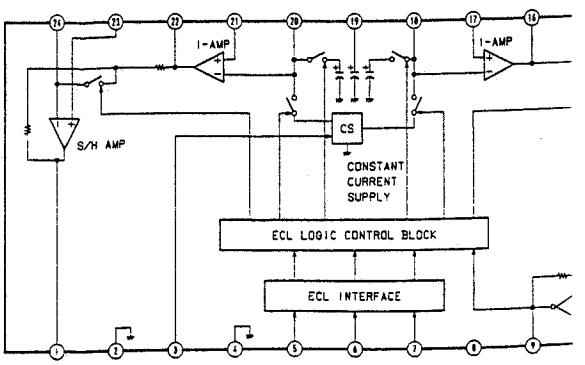
A	IC101	TDA3541	VIF
	102	TDA2556	QPT • SIF
	Q105	JC501	VC FILTER
	106	JC501	VIDEO GD
	107	JA101	VIDEO BUFF
	108	DTC144ES	PRC-1
	112	JC501	BUFF-L-1
	113	JC501	BUFF-R-1
	115	JC501	6.552 BUFF
	118	JC501	BUFF-L-2
	119	JC501	BUFF-R-2
	120	DTC144ES	PRC-2
	D105	RD6.2ESB1	SEARCH • AGC

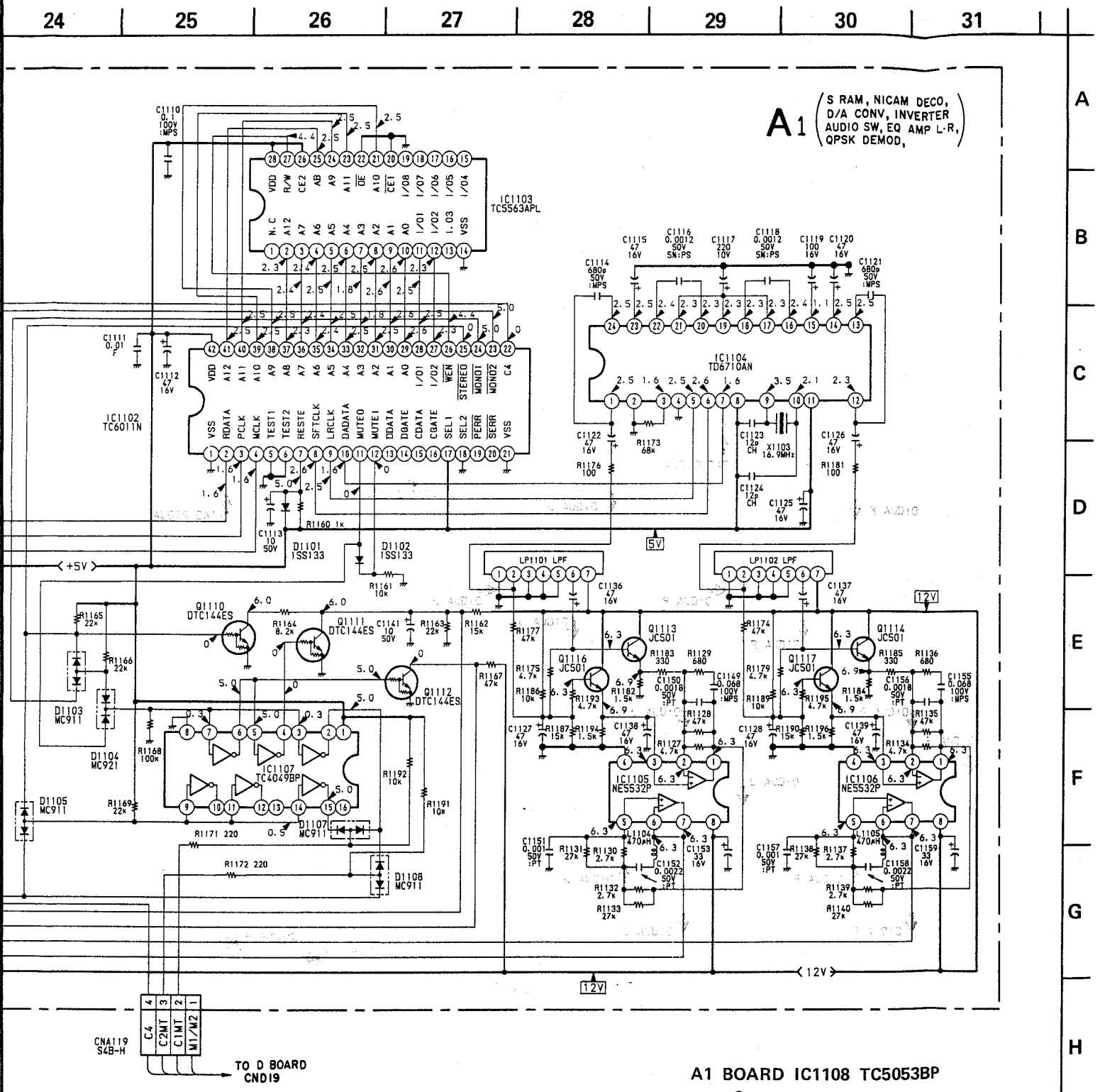
A1	IC1101
	1102
	1103
	1104
	1105
	1106
	1107
	1108
	Q1101
	1102
	1103
	1104
	1109
	1110
	1111
	1112



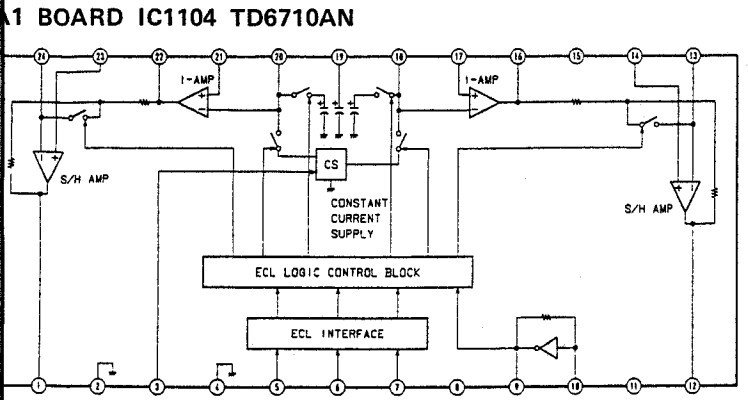
JC501	BUFF-L
JC501	BUFF-R
DTC144ES	AUDIO SW
JC501	BIAS-L
JC501	BIAS-R
1SS133	RESET
1SS133	MUTE-1
MC911	LOGIC-1
MC921	LOGIC-2
MC911	LOGIC-3
RD5.6ESB2	5V REG
MC911	LOGIC-4
MC911	LOGIC-5
1SS133	MUTE-2
1SS133	MUTE-3

A1 BOARD IC1104 TD6710AN





A1 BOARD IC1104 TD6710AN



A1 BOARD IC1108 TC5053BP